GEOTECHNICAL ASSESSMENT REPORT

Rainbow Disposal Co., Inc. 17121 Nichols Street Huntington Beach, California

prepared for

Rainbow Disposal Co., Inc. 17121 Nichols Street Huntington Beach, California

January 16, 2006

Project No. 217-E

prepared by environ strategy consultants, inc.

30 Hughes, Suite 209 Irvine, California 92618 tel 949.581.3222 fax 949.581.3207

TABLE OF CONTENTS

TAI	BLE O	F CONTENTS	. i
1.0	INTI	RODUCTION	1
2.0	SCO	PE OF WORK	1
3.0		DESCRIPTION	
3.		e Geologic Conditions	
	3.1.1	Regional Geology	
	3.1.2	Site Seismic Hazards Potential	
4.0	SUB	SURFACE INVESTIGATION	
4.	1 Dr	illing and Sampling Methodology	4
		boratory Testing	
_•	4.2.1	Water Content and Density Determination	
	4.2.2	Direct Shear Tests	
	4.2.3	Expansion Index.	
	4.2.4	Consolidation Tests	
	4.2.5	Other Testing	
4.	3 Se	ismic Considerations	
	4.3.1	Fault Rupture	
	4.3.2	Ground Shaking	
	4.3.3	Liquefaction	
	4.3.4	Lateral Spreading	
	4.3.5	Seismic Settlement	
	4.3.6	Tsunamis	
5.0	ENG	INEERING RECOMMENDATIONS	
6.0		TECHNICAL RECOMMENDATIONS	
6.		e Preparation	
6.		ading	
6.		w Transfer Station	
6.		ncrete Slab-on-Grade	
6.		osion Control	
6.		mporary Debris Fence	
6.		ility Trenches	
7.0		CLUSION	

TABLE OF CONTENTS (Continued)

FIGURES

1	Site Location Map
2	Current Site Plan
3 .	Geotechnical Boring Location Map

APPENDICES

Α	Subsurface Exploration (Boring) Logs
В	Test Program and Chain-of-Custody Records
С	Bulk Density and Moisture Results
D .	Direct Shear Results
E	Expansion Index Results
ਜ	Incremental Consolidation Results

1.0 INTRODUCTION

This report presents the results of the geologic and geotechnical engineering investigation conducted by Environ Strategy Consultants Inc. (Environ Strategy) for the proposed construction of a building at Rainbow Disposal Company, Inc. (Rainbow) located at 17121 Nichols Street in Huntington Beach, California (Figure 1). The most current architectural plans include construction of a new transfer station building to be located in the southwest corner of the site (Figures 2 and 3). Plans are also being reviewed for future expansion of the maintenance and administration buildings, the addition of compressed natural gas (CNG) fueling facilities, and a new welding building, bin storage area, and truck scales. This report only includes the evaluation and recommendations for the new transfer station facility.

The new transfer station and associated drive through tunnel, will consist of a metal building approximately 70,000 square feet in size and about 30 feet in height. The building will have an entrance and exit ramp leading to a loading pit at a depth of 18 feet below surrounding ground surface. Grading for the project will consist of minor cuts and fills to prepare the ground surface for new concrete slab-on-grade, and the deep excavation for the truck ramp leading to the loading pit.

The purpose of this report is to evaluate surface and subsurface conditions and ascertain the engineering properties of the materials encountered during the subsurface exploration. Based on these findings we have provided geologic and geotechnical recommendations for the design and construction of the new transfer station structure.

This report has been prepared to obtain building and planning approval from the City of Huntington Beach. This report is based on preliminary site plans developed from information and equipment selection provided by the Rainbow staff or their project managers.

2.0 SCOPE OF WORK

For this geotechnical engineering investigation, we performed the following tasks:

- 1. Reviewed information relevant to the proposed site and surrounding areas available in our files and the City of Huntington Beach.
- 2. Reviewed published geologic maps to assess geologic and geomorphic conditions at the site and adjacent areas.
- 3. Explored, sampled, and classified subsurface earth materials by means of soil borings performed in the areas of the proposed structures. Soil samples were visually classified in the field by a degreed geologist under the oversight of a

State-Certified Geologist and transported to a geotechnical laboratory for evaluation and testing.

- 4. Performed a review of the soil samples and selected the applicable laboratory testing to determine pertinent index and engineering properties. The following laboratory tests were performed:
 - a. In-situ water content (American Society for Testing and Materials D2216)
 - b. In-situ bulk density tests (ASTM D2937)
 - c. Direct shear strength determination (ASTM D3080)
 - d. Expansion Index (ASTM D4829)
 - e. Consolidation (ASTM D2435)
- 5. Performed relevant geotechnical analysis for the proposed project, including:
 - a. Peak ground acceleration determination
 - b. An evaluation of seismic hazards at the site, including the potential for fault rupture, liquefaction, lateral spreading, and seismic settlement
 - c. Bearing capacity analysis
 - d. Determination of equivalent fluid pressures for any retaining wall design
 - e. An evaluation of potential foundation settlement
 - f. Temporary excavation analysis
- Reviewed and analyzed research information and laboratory results to determine appropriate design parameters and recommendations for the proposed construction.
- 7. Based on the above tasks, prepared this report presenting our findings and conclusions, as well as, preliminary geotechnical recommendations for: earthwork, grading, foundation design, retaining walls, utility trenches, and advice on the geotechnical aspects of surface drainage.

3.0 SITE DESCRIPTION

Rainbow currently occupies 17.59 acres of land located at 17121 Nichols Street within the City of Huntington Beach of Orange County, California (Figure 1). The site property is located 500 feet south of Warner Avenue and is bounded by Nichols Street on the East and the Southern Pacific Railroad on the West. The site latitude and longitude are 33° 42' 51.8" North and 117° 59' 44.9" West and the site elevation is approximately 29 feet above mean sea level (AMSL).

The property currently operates as an active permitted waste transfer and material recycling facility with a household hazardous materials collection center and an overall processing capacity of 2,800 tons per day. The hours of operation for receiving and

transferring waste are 6:00 AM to 6:00 PM Monday through Sunday. However, the facility processes waste 24 hours per day over 360 days per year. Site access is through several entrances off of Nichols Street. Existing site structures illustrated on Figure 2 include an administration building, a vehicle repair shop, a welding shop, a material recycling facility (MRF), a transfer building, a fuel dispenser island, two guard shacks, office trailer, several storage trailers, and canopies. A former two-story building that occupied the location of the proposed transfer station in the southwest corner of the site has been removed (Figure 2).

3.1 Site Geologic Conditions

3.1.1 Regional Geology

The proposed project site is located in the City of Huntington Beach. The subject site is situated within the central block of the Los Angeles physiographic basin, a coastal alluviated lowland lying between the Newport-Inglewood fault zone and the Anaheim fault zone, surrounded by the mountains and hills of the Transverse and Peninsular Ranges geomorphic provinces. More specifically the subject site is located on the Huntington Beach Mesa just south of the Downey Plain. The Huntington Beach Mesa terrain consists of a stratified sequence of marine and non-marine sedimentary rocks which range from Cretaceous to Pleistocene in age. The subsurface conditions within the property consist of sand, gravel, silt, and clay of the lower Pleistocene San Pedro formation. This is overlain by a stratified sequence of nonfossiliferous continental sand, terrace deposits, fossiliferous marine Palos Verdes sand, and unnamed deposits of silt, sand, and gravel.

According to the U.S. Department of Agriculture's Soil Conservation Service STATSGO data, soils within the subject site are greater than 10 inches in thickness. Soils consist of a silty to gravelly loam with clay, sand, and gravel. Deeper soils are reported to be stratified sand, gravel, and clay loams overlying weathered bedrock. No information on the specific hydrologic group, infiltration rates, drainage, water holding capacity, and corrosion potential of site soils could be located.

3.1.2 Site Seismic Hazards Potential

The City of Huntington Beach is located in the seismically active region of Southern California and several active faults are located within and near the city. The subject site is not located within an Alquist-Priolo (AP) Special Studies zone and no evidence was found of faults traversing the site. However, the subject site is located near the North Branch of the Newport Inglewood AP Earthquake Fault Zone, according to the State of California Special Studies Zones Map. The AP Earthquake Fault Zones are regulatory zones that encompass identifiable surface traces of active faults, defined as having measurable displacement during the last 11,000 years (Holocene period), and considered to have a potential for future surface fault rupture. The main trace of the North Branch of the Newport Inglewood AP fault is located approximately two miles west of the subject

site. The northwest trending Newport Inglewood fault is approximately 75 kilometers long and runs from Culver City parallel to the coastline to below Newport Beach where it heads off-shore and becomes the Newport Inglewood-Rose Canyon Fault. It is a right lateral fault with an estimated slip rate of 0.6 millimeters per year. The most recent major rupture occurred on March 10, 1933 and was measured as a magnitude 6.4. Estimated possible magnitudes for future ruptures on this fault are between magnitudes 6.0 and 7.4. Other Holocene faults within 20 miles of the project include the Palos Verdes, Whittier, and Elsinore faults. The Palos Verdes fault parallels the coast about 10 miles west of the site. The south trace of the Whittier Fault connects to the Elsinore Fault and both are approximately 20 miles northeast of the site. Other inactive (Quaternary) trace faults, Los Alarnitos and Peralta, are located within 10 miles of the property to the north.

4.0 SUBSURFACE INVESTIGATION

4.1 Drilling and Sampling Methodology

Field exploration was performed on September 12 and 13, 2005. Environ Strategy retained Al-Roy Drilling Incorporated to perform 14 soil borings in six (6) areas of interest across the site. The approximate locations of the borings performed in the proposed transfer station site on the southwest corner of the facility are illustrated on Figure 3. Concrete coring was required prior to drilling at most of the selected locations, since approximately three quarters of the site is overlain by thick concrete. The drill rig encountered refusal in four of the borings due to subsurface structures related to the previous building (see Figure 2).

Soil samples were collected at 5-foot intervals for submittal to a geotechnical laboratory. A California sampler was used to obtain relatively undisturbed samples of the alluvial deposits and bedrock materials in accordance with ASTM D3350. The sampler consisted of a 3-inch outer diameter, 2.44-inch inner diameter split barrel that was driven a total of 12-inches into the materials at the bottom of the drill hole. The sample material was retained in capped 6-inch long brass rings and placed in plastic bags for transport to the laboratory for testing. Sample materials remaining in the waste barrel and sampler shoe were used to assist in classifying the materials in accordance with Unified Soil Classification System (USCS) by a degreed geologist overseen by a State-Registered Geologist. The boring logs, presented as Appendix A, record the lithologic description. The remaining soil cuttings were used as backfill.

Samples collected with the California sampler were driven into the bottom of the drill hole with the effective weight of the Kelly bar on the hollow stem auger drill rig. The approximate length of the fall, the weight of the bar, and the number of blows per foot of the driving record were recorded in the field. The total number of blows required to drive the sampler 12-inches are recorded on the Subsurface Exploration Logs, included in Appendix A.

Several large bulk samples (approximately 5 gallons) were also collected from the drill hole spoil piles and placed in plastic buckets and sealed for transportation to the laboratory.

4.2 Laboratory Testing

Laboratory tests were performed on representative undisturbed samples to determine engineering properties and indices of the materials encountered. The tests were performed in accordance with the latest edition of ASTM Standards for Soil Testing. An engineering geologist reviewed all samples returned to the laboratory prior to scheduling the laboratory testing. A copy of the Test Program form and the field Chain-of-Custody forms are enclosed in Appendix B.

4.2.1 Water Content and Density Determination

In-situ water content and density tests were performed on select, undisturbed samples in accordance with ASTM D2216 and D2937. The soil moisture content ranged from 7 % to 48.7 % by weight. The results of the water and density testing are presented in Appendix C.

4.2.2 Direct Shear Tests

Multi-stage direct shear tests were performed on select samples to determine the consolidated drained shear strength of a specimen in accordance with ASTM D3080. Each shear strength test consists of three samples tested at varying normal loads to determine the effects upon shear resistance and displacement, and strength properties. Undisturbed samples were loaded into the shear box, a normal load applied, then water added. The sample was allowed to sit until the proper amount of consolidation was achieved and then shear tested. The samples were sheared in a motor driven, strain controlled, direct shear testing machine. The cohesion results range from 135 psf (pounds per square foot) to 280 psf and the angle of internal friction ranges from 22.9 to 32.2 degrees. The results of the peak and ultimate values from the tests are presented in Appendix D.

4.2.3 Expansion Index

An Expansion Index (E.I.) test was performed on a near surface clay sample to evaluate the expansion potential in accordance with ASTM D4829. The test result is presented in Appendix E. The test result can be compared with the table presented on the next page to qualitatively evaluate the expansion potential for the near surface materials.

Expansion Index	Potential Expansion
0 - 20	Very Low
21 - 50	Low
51 – 90	Medium
91 - 130	High
Over 130	Very High

The near surface clay materials at the north end of the Rainbow Facility are considered to be in the high expansion range (E.I. = 107+). Soils at the proposed transfer station location have a higher sand content and therefore will have a lower expansion index.

4.2.4 Consolidation Tests

Multi-staged consolidation tests were performed on selected samples to determine their consolidation and expansion characteristics in accordance with ASTM D2435. An undisturbed sample was loaded into the consolidation machine, a normal load applied, then water added. Increasing loads were applied to a selected load threshold, with the amount of consolidation recorded for each load. The normal load was then removed and the amount of rebound was recorded. The consolidation test results are presented in Appendix F.

4.2.5 Other Testing

In addition to the above geotechnical laboratory testing, corrosivity tests and chemical analysis testing are recommended. If high strength concrete is used then the tests may not be necessary, however, for the lean mix in soldier piles, it might be advisable to run two or three water soluble sulfate tests. These tests were not performed at this time since the soils that will be used for the subsurface grades have not been selected yet.

4.3 Seismic Considerations

The proposed site is located within the seismically active Southern California, however, it is not within a Special Studies Zone. Forecasting the number, frequency, or magnitude of earthquakes that may occur during the lifespan of the proposed project cannot be done reliably. However, the project designers and property owners should assume that a major earthquake will occur sometime within the next 50 years and that measures should be taken to address the potential for damage due to the following geologic hazards associated with seismic events.

4.3.1 Fault Rupture

An earthquake is generally caused when movement along a plane of weakness in the rocks releases strain energy in rocks. Movement along the plane of weakness typically propagates upward through the subsurface materials and is manifested at the surface as

surface rupture. In some cases, the propagation does not reach the surface and is referred to as a blind fault. Surface rupture usually occurs along the traces of known active or potentially active faults. There are, however, many historic seismic events in Southern California that have occurred on unknown faults or faults that were not considered to be active.

No known active or potentially active faults or splays are known to cross the proposed site.

4.3.2 Ground Shaking

As noted above, the proposed site is approximately two (2) miles east of the main trace of the North Branch of the Newport Inglewood AP fault, and may experience strong ground motion if an earthquake occurs on this or any other nearby principle late Quaternary faults. The Southern California Earthquake Center has recently released information indicating that seismic risk at most sites in southern California is higher from local, possibly unknown faults than for known, large regional faults (i.e. San Andreas Fault).

As mentioned above, the number and frequency of earthquakes that may occur during the lifespan of the proposed project cannot be reliably predicted. It is probable, however, the proposed site will experience a large earthquake during the operational time of this project. The potential effects of seismic activity depend on several factors such as: the severity and duration of ground shaking, the type or mechanism of faulting, depth of the focal point, the type of structure involved, and local topography. The effects of ground shaking may include structural damage, underground tanks and/or utilities may be uplifted or fail, and blockage of access roads. Also, broken utility lines could result in fires, contamination of water services, and the cut off of services.

4.3.3 Liquefaction

Other Seismic Hazards at the subject property include the potential for liquefaction. Liquefaction occurs when saturated, cohesionless soils transform from a solid to a liquid state as a result of increased pore pressure and reduced effective stress during severe ground shaking. A soil's potential for liquefaction during an earthquake event is dependent upon several factors. These factors include but are not limited to: magnitude and proximity to an earthquake, duration of shaking, subsurface soil types, grain size distribution, clay content, density, angularity, effective overburden, elevation of groundwater table, cyclic loading, and soil stress history.

The City of Huntington Beach is underlain by shallow, near surface water, which poses some potential for liquefaction within depths of 1 to 50 feet, and hazards to construction within depths of 30 feet. Based on our review of the existing subsurface soil and groundwater conditions, and considering the in place density of these soils, there is a very low potential for liquefaction of the materials underlying the site.

4.3.4 Lateral Spreading

Lateral spreading is the result of a subsurface layer that has undergone a transformation to a fluidized mass where gravity and inertial forces cause the layer to move in a downhill direction. Studies have shown that a slope as little as 5% may have lateral movement with seismic activity.

Based on the type and density of the materials, and the depth of groundwater encountered, there is a very low potential for lateral spreading at the proposed site in the event of a severe seismic event.

4.3.5 Seismic Settlement

Seismic ground settlement occurs under a structure in which cohesionless materials, typically fine to medium sands, are present below the groundwater table. As a result of ground shaking and the development of higher pore water pressures, the cohesionless soils become loose, resulting in ground subsidence.

Based on the clayey soils encountered at the site, there is a very low potential for seismically induced foundation settlement.

4.3.6 Tsunamis

Tsunamis are oceanic waves that may be generated by earthquakes, submarine volcanoes, or large submarine landslides. The only means of avoiding damage by a tsunami is to avoid development in low lying areas exposed to the ocean.

Due to the elevation of the proposed site improvements and the distance of approximately three (3) miles from the ocean, damage to the improvements is considered unlikely in the event of a tsunami.

5.0 ENGINEERING RECOMMENDATIONS

A preliminary geologic and geotechnical engineering investigation has been performed for the proposed new transfer building at the Rainbow Disposal Company Inc. located at 17121 Nichols Street in Huntington Beach, California. This report has been prepared for planning approval from the City of Huntington Beach and for preliminary design.

The preliminary geotechnical concern at the proposed site is geologic hazards associated with seismic activity. The proposed site will likely be subjected to severe ground shaking during the life span of the proposed improvements. We estimate strong ground shaking for a maximum probable event for the proposed site to be on the order of 20 to 40 seconds.

For the 1997 Uniform Building Code (UBC) seismic design, the following parameters should be used:

nic Soil	Near	Seismic	Near	Seismic
ce Profile	Source	Coefficient	Source	Coefficient
Type	Factor	(Ca)	Factor	(Cv)
	(Na)		(Nv)	
S _B	1.3	0.40Na	1.6	0.40Nv
	Туре	Type Factor (Na)	Type Factor (Ca) (Na)	Factor (Ca) Factor (Nv)

The property owners and project designers should note that the UBC values and design parameters are presented as minimum values, and are not intended to prevent damage, but only to prevent catastrophic collapse and to minimize risk to human life.

Based upon our review of the site and available data, the proposed improvements are feasible from a geologic and geotechnical standpoint, assuming the recommendations presented in this report are implemented during the design and construction of the project.

6.0 GEOTECHNICAL RECOMMENDATIONS

The following preliminary recommendations, which are presented as guidelines to be used by the project designers, have been prepared assuming that Environ Strategy and their subcontractors will review a complete set of plans prior to construction and observe all construction activities. Once final plans have been prepared, additional recommendations may be necessary for the proposed project.

The specifications in this section present general procedures and requirements for grading and earthwork as shown on the site grading plan, and anticipated for overall construction of the proposed project. Recommendations contained in this report should be considered a part of the project specifications. Evaluations performed by Environ Strategy and their subcontractors during the course of grading may result in new recommendations that could supercede the specifications or recommendations of this report. It shall be the responsibility of the contractor to provide adequate equipment and construction methods to accomplish the work in accordance with the applicable grading codes or agency ordinances, these specifications, and the approved grading plans.

6.1 Site Preparation

Areas of the site to be built upon, paved, or excavated should be stripped to remove any surface debris, vegetation, and organic topsoil. Soil containing more than two percent by weight of organic matter should be considered an organic soil and is not suitable for use in structural fill. Stripping depths should be determined in the field. However, for planning purposes, an average stripping depth of four inches may be assumed. Stripping

materials may be reused in landscaping areas as designated by the project architect or should be hauled offsite.

6.2 Grading

Excavated soils from the truck ramp and drilled piles are considered suitable for reuse as structural fill and should be stockpiled if there is a need for raising site grades on this project. The suitability of the materials should be determined in the field by the project geotechnical engineer at the time of excavation. Alternatively, these materials may be suitable for on-site landscaping as necessary. On-site, as well as any imported soil proposed for use as structural fill, should be inorganic, free from deleterious materials, and should contain no more than fifteen percent by weight of rocks larger than four inches (largest dimension) and no rocks larger than six inches.

For planning purpose of estimating earthwork quantities, it may be assumed that 85 to 90 percent of the excavated materials should be suitable for re-use as structural fill. The onsite soils are clayey and will require careful control of moisture during placement and compaction of these fine grained soils.

The surface exposed by stripping and excavation activities should be scarified to a depth of 8 inches, water conditioned to produce a moisture content of about 1 to 3 percent above optimum value, then compacted to a minimum of 90 percent relative compaction based on the ASTM test D1557-91. If artificial fill is encountered it should be excavated until native soils are exposed. Proposed fill materials should be thoroughly mixed and processed to achieve consistent moisture content with a well-mixed, uniform consistency. Fill materials should be reasonably free of large soil lumps or clods, and the fill surface free of uneven features that would inhibit compaction efforts. Care should be made to ensure that fill materials are not over-watered. Wet sub-grade conditions must be removed, dried and/or mixed with drier materials, and re-compacted prior to acceptance of the fill materials.

Areas designated to receive fill may then be brought up to design grades. Structural fill using the on-site inorganic soils or approved import, should be placed in less than eight inch thick layers (before compaction), water conditioned and compacted as specified above. All fill material should be compacted with a sheep foot roller or similar equipment. Compaction using rubber tire equipment will not be acceptable.

Compaction tests should be performed during fill placement operations to verify that the required degree of compaction is obtained. Due to the shallow depths of fill planned for this site, field density tests should be performed on every other lift and as directed by the field engineer.

6.3 New Transfer Station

Proposed foundations for the transfer station structure will consist of a combination of drilled piles and spread footings that will carry the column loads expected to reach 100 kilo-pounds. Drilled soldier piles will be required for support of the vertical cuts required for the ramp that will reach a depth of approximately 18 feet below existing grade. Some of these piles will be used for direct support of the column loads while providing lateral support for the temporary cut. Consideration should be given to using drilled piers at the remaining column locations since drilling equipment will be on-site and available for installing these pier footings.

Soldier piles will consist of drilled holes with a vertical steel beam or reinforcement designed to retain the full height of the vertical cuts. Pile diameters are expected to range from two to three feet and the spacing will probably range from six to eight feet depending on slope height and level of reinforcement. Pile depths should extend at least 20 feet below the bottom of the concrete ramp if they are to carry the column loads of about 100 kilo-pounds. Minimum pile diameter should be 24 inches for these loading conditions. Settlement of the drilled pier footings should be less than ½ inch.

Design of the soldier piles should be based on an active earth pressure of 40 pcf (pounds per cubic foot) for a level backfill condition. Resistance to temporary lateral earth pressures can be provided by passive earth pressure below the base of the pile using a design value of 300 pcf. Additional lateral resistance will be available when the concrete ramp slab has been poured.

Spread footings should be designed for an allowable soil bearing value of 3,000 psf (pounds per square foot) based on the results of consolidation and shear strength test data. Estimated settlement of 6x6 foot square footings under the anticipated structural loads will be about one inch with about half of this settlement occurring during construction of the transfer building. This bearing value may be increased by one third to account for temporary seismic or wind loading on the structure.

6.4 Concrete Slab-on-Grade

The proposed concrete floor slab in the transfer building will be carrying heavy equipment loads that we understand will be transient and not permanent. We recommend that this reinforced concrete slab be underlain by a minimum 12 inch thick compacted granular fill that is compacted to 95% of its maximum density as determined by the D1557-91 test method. The granular imported fill should consist of a crushed clean gravel with less than three percent silt content and a maximum grain size of one and a quarter inches.

Structural design of this slab should be based on a soil subgrade modulus of 150 pci (pounds per cubic inch), which considers the modulus of the compacted native soils (100

pci) and the modulus of the compacted gravel fill blanket (300+ pci). An allowable sliding friction factor of 0.65 may be used for the gravel-concrete interface.

6.7 Erosion Control

Materials that underlie the site are prone to erosion. If construction takes place during the winter months or raining periods, the contractor should coordinate necessary winterizing and erosion control measures.

In general, site management practices for all equipment storage, entry areas, re-fueling, as well as, erosion control and prevention should be in accordance with the State of California's Best Management Practices (BMPs) as outlined for Storm Water Pollution Prevention Plans (SWPPP) in the California Storm Water Best Management Practice Handbook. In addition, BMPs specified in the report entitled Pollution Control Objectives for Construction Sites and Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters (EPA Jan. 1993) are also applicable.

6.8 Temporary Debris Fence

A temporary debris fence should be installed along the perimeter of the building pad during any site excavation or fill placement operations performed during the winter months. The intent of the fencing is to minimize offsite sedimentation and to control erosion during heavy rain storm activity.

6.9 Utility Trenches

Vertical trench excavations less than 5 feet deep should be capable of standing with minimal shoring and bracing for short construction periods. Trenches five feet or greater should be provided with more substantial shoring and bracing for the protection of workers in the trench. Contractors should refer to the State of California Construction Safety Orders for "Excavations, Trenches, and Earthwork" for minimum specifications and guidelines.

Bedding is defined as material placed in a trench up to 1 foot above a utility pipe and backfill is all material in the trench above the bedding. Unless concrete bedding is required around the utility pipes, free-draining sand should be utilized as bedding. Sand proposed for use in bedding should be tested in a laboratory to verify its suitability and to measure its compaction characteristics. Sand bedding should be evaluated by ASTM Tests D4283-83 and D4284-83.

Approved, on-site, inorganic soil, or imported material may be used as utility trench backfill. If imported material is proposed for use as trench backfill, a sample of it should be tested and approved by the project engineer <u>before</u> any is delivered to the site.

Proper compaction of trench backfill will be necessary under and adjacent to structural fill, building foundations, concrete slabs and vehicle pavement. In these areas, backfill should be conditioned with water to produce a soil-water content of about one to three percent above optimum value and placed in horizontal layers not exceeding six inches in thickness (before compaction). Each layer should be compacted to at least 90 percent relative compaction based on ASTM Tests D1557-91. The upper 12 inches of trench backfill under vehicle pavement should be compacted to at least 95 percent relative compaction.

Where any trench crosses the perimeter foundation line of any building, the trench should be completely plugged and sealed with compacted on-site clay soil for a horizontal distance of two feet on either side of the foundation.

7.0 CONCLUSION

The conclusions and recommendations presented in this report are based on research, site observations, and a limited subsurface investigation. Although no significant variations in subsurface conditions are anticipated, the possibility of variations cannot be ruled out. Evaluations performed by Environ Strategy or their contractors during the course of grading may result in new recommendations that could supercede the specifications or recommendations of this report.

This report has been prepared in accordance with generally accepted professional engineering principles and practice. No warranties of future site performance are intended, expressed, or implied.

Environ Strategy is pleased to have been of service to our client and the involved regulatory agency. If you have any questions or require additional information, please do not hesitate to contact the undersigned at (949) 581-3222.

Respectfully submitted, Environ Strategy Consultants, Inc.

John E. McNamara, R.G. 4863/ C.E.G. 1725 Principal Engineering Geologist

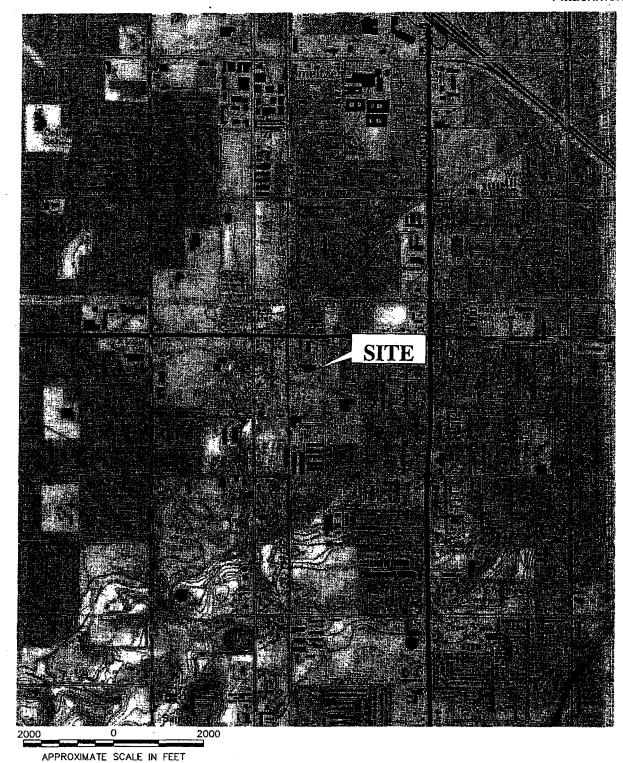
STEP GEOLOGIST

MCNALOGO

Margaret Patrick, R.G. 7620 Project Geologist



FIGURES



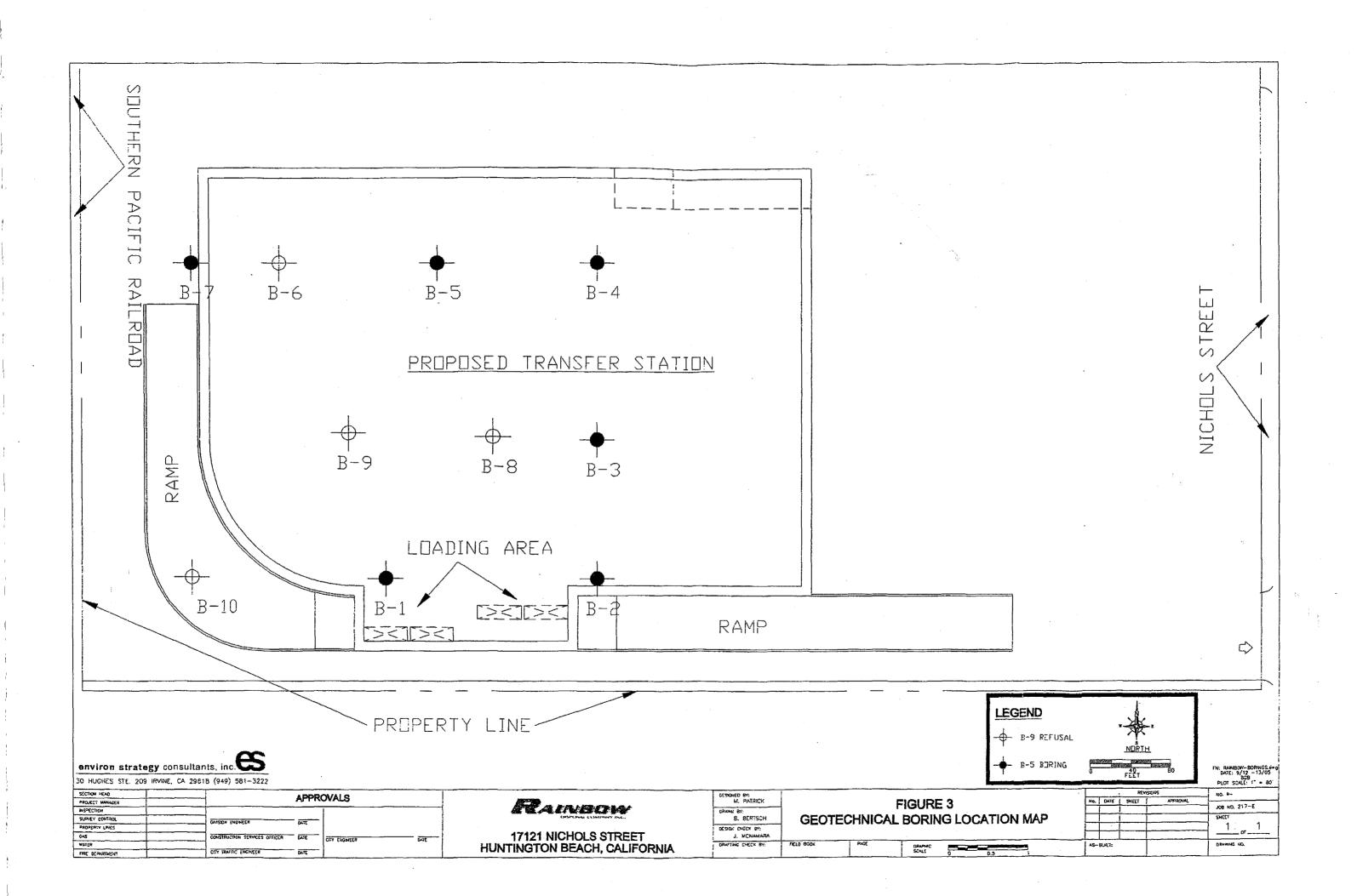
ENVIRON STRATEGY CONSULTANTS, INC.

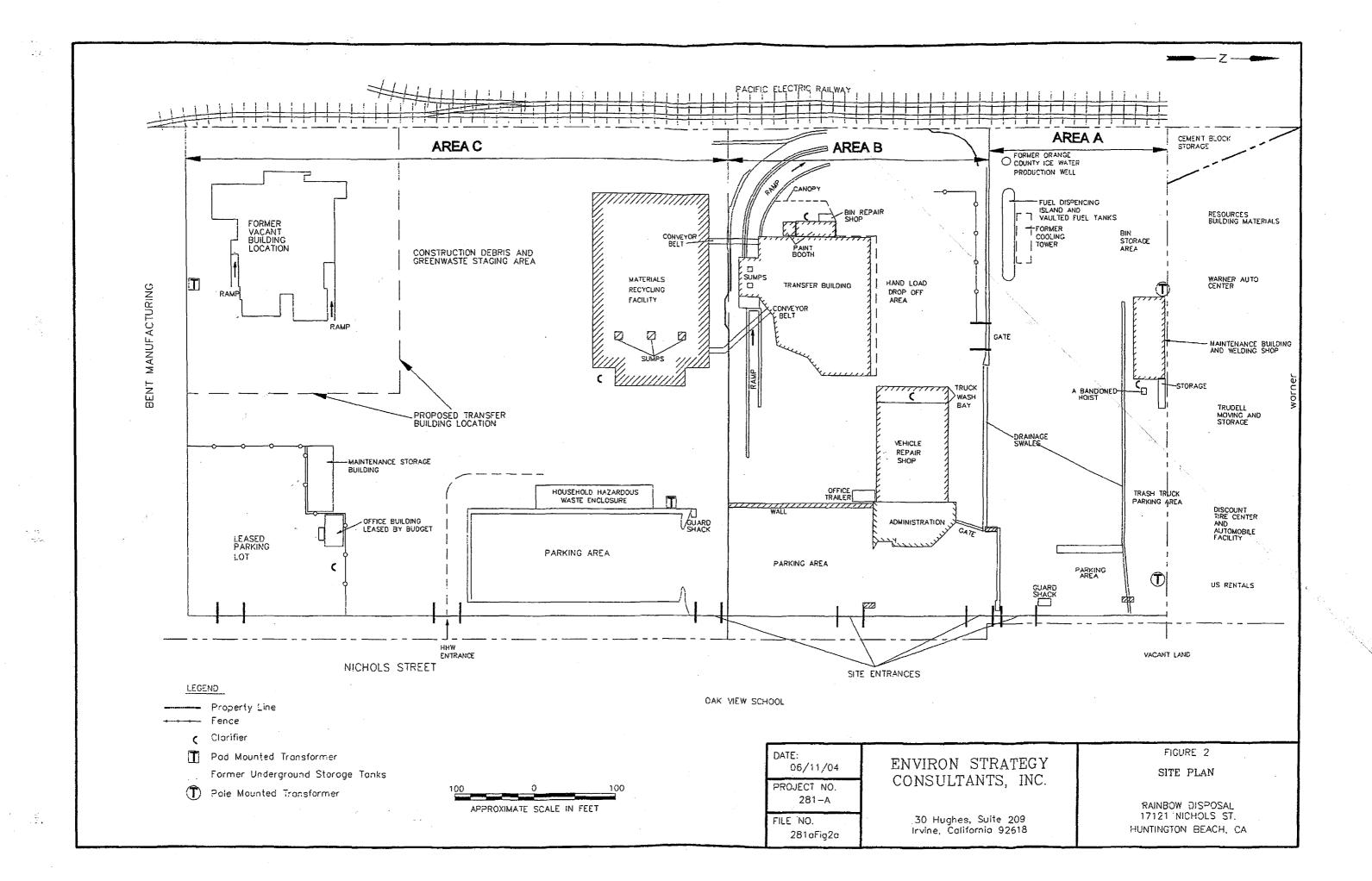
30 Hughes, Suite 209 Irvine, California 92618 FIGURE 1 SITE VICINITY MAP

RAINBOW DISPOSAL 17121 NICHOLS ST. HUNTINGTON BEACH, CA DATE: 06/10/04

PROJECT NO. 281-A

FILE NO. 281AFig1





APPENDIX A

BORING/WELL ID NUMBER: 15-1

SUBSURFACE EXPLORATION LOG

CLIENT: Rainbow Disposal PROJECT NUMBER: 217E

LOCATION: 17121 Nichols Street Huntington Beach, CA SURFACE ELEVATION:

GEOLOGIST: Margaret Patrick / A PMCA (1999)
DATE DRILLED: September 42, 2005

DRILLING COMPANY: Al-Roy Drilling Inc.

NORTHING:

TOTAL DEPTH: 50 Ft

Page 1 of 2

DRILLING METHOD: Hollow stem auger

SAMPLE METHOD: split spoon / 101 16 - homes

	7,10		ATION.								1101	i ning;				EAS I IN	u.						
- 1			ō	FID/I									GEOLOGIC	DESC	RIPTION							_	
	,,	E	Ę	(pp		ļ												1 1				줱	act
Depth (ff)	Samples	Time (24 hr)	Sample Number	Sample	Breathing Zone	Blow Count	Recovery (ft)	% gravel	% sand	% non- plastic fines	% plastic fines	Lithologic Name	Color	Moisture	Density	Consistency	Plasticity	Angularity	Max. grain size	grading	Additonal Modifiers	Soil Class. Symbol	Lithologic Contact {ft bgs}
	 		,									B" asphall,									Hound Progen		
5		*************	B-1/CET-1	8.<	25			*******			**********	CLAY.	Browin	/#1.1145 (7.1	_	firm	in c.			pord	3 _{1,} 4	CL	-
	181					25.	1.5																_
] =	XX X	(10)[0]]	B-1/58T-Z	.<5	~ 5	.,			•••••	· · · · · · · · · · · · · · · · · · ·	•••••	CLAY	Brown	dan P	w -	2+. f.t	اروا		***********	ba:		<u>ځ</u> اــــــــــــــــــــــــــــــــــــ	
-	××		B-1/5CT-3	۷ ς	~ C		15					CLATICY SILT	right BROWN	Word	·	Shitt	}~ r-l			C		ML	- - - -
12	†&T	·	**************************************		†·····		1.5	10050001	********					•				† <u>†</u>					\dashv
	×		13-1/spr-y	Bon Such	¥.	10						SAME PS ABOLE			•••••••	•			•••••	₽		ML	
20	7×		B-1 SPT-S	< S	4 5	년 70 70	1,5					Spray v. fine grand (brind layer), over	light broom	Mr. if	_	CHICK	ስየረ		fn	me)		MC	Attac
	X		(rontinued)			3/10/19	i, S															KP. ML	Attachment 10
Notes	s:				I			> 1/4 inch	visible -1/4 in.	visible with found lens	not visible	See USCS flow Charts. Describe sand and gravel grading, le, fine to coarse grained	Use Munsell color chart if available	Moist	Course: v. loose loose md. dense dense	Fines; v. soft soft md. Stiff v.stiff hard	med low	A Sa Sr R	in inches	poorly vs. well	odor, staining, minerology, stucture, cementation,		

BORING/WELL ID NUMBER: B-

SUBSURFACE EXPLORATION LOG

CLIENT: Rainbow Disposal PROJECT NUMBER: 217E

LOCATION: 17121 Nichols Street Huntington Beach, CA

HIGGO-THAT TO THE TANKS THE TOTAL TOTAL

SURFACE ELEVATION:

GEOLOGIST: Margaret Patrick / Lawn. Craw
DATE DRILLED: September 12, 2005
DRILLING COMPANY: Al-Roy Drilling Inc.
NORTHING:

TOTAL DEPTH: 50 ff

Page 2 of 2

DRILLING METHOD: Hollow stem auger

SAMPLE METHOD: split spoon /140 16 hammer

1	JUH	TAUI	C CLE	ATION:								NOH	HING:				EASTIN	<u>G:</u>	<u> </u>			····		
			(c	Jeer Jeer	FID/					•				GEOLOGIC	DESC	RIPTION						,	8	75
	Depth (ft)	Samples	Time (24 hr)	Sample Number	Sample	Breathing Zone	Blow Count	Recovery (#)	% gravel	% sand	% non- plastic fines	% plastic fines	Lithologic Name	Calor	Moisture	Density	Consistency	Plasticity	Angularity	Max. grain size	grading	Additonal Modifiers	Soil Class. Symbol	Lithologic Contact (ft bgs)
		XXX 		B-1/SPT-6	-5		14	1.5					SICT, W/ Smoll Size gradel (clinch clination) Over CLAY, SI plastic	Privat 1974	C!		ð:tt:	pav				exidetion Staining! trillind; gradel cub	ML	ML-
	-	XXX	, `	B-1/5et -7	cs.			1.5					SAND, V.fn to fred graned Sand, morely graned	yellowich Drown	لو،ولغ مار ديا.	nd · dense				fn	l,	tron med grained to years	SP 1	
	45	XXX	***********	B-1/59-8	C 5"	/5	9 75 11/1	1,5					SAND, und gurnor! That party grades!	hellowist hellowist	Sat	dence				nel			Ç.	
	50			no sample collected (wosh up) the twels before				0		Phivohen					Sul							Wash-Lym Complexion amount of sand (Came as obove)	ር የ	
			*********	no Sample collected				0							Sut							9 ft sluff- SAND.		Atta
	Notes				,															•	,			Attachment 10
		- 6 - 17 - 13	non- otal oring	droter crosses	Areina In Ar Rus 1984,	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1/4+		> 1/4 inch	visible -1/4 in	visible with hand lens	not visible	See USCS flow Charts. Describe sand and gravel grading, ie, fine to coarse grained	Use Munsell color chart if available	Dry Moist Wet	loose md.	Fines: v. soft soft md. Stiff v.stiff hard	1		in inches	poorly vs. well	odor, staining, minerology, stucture, cementation,		

SUBSURFACE EXPLORATION LOG

CLIENT: Rainbow Disposal

PROJECT NUMBER: 217E

LOCATION: 17121 Nichols Street Huntington Beach, CA

F-11 000 markets MANSIWID done 1410 former and for the

SURFACE ELEVATION:

GEOLOGIST: Margaret Patrick / Lauro Stow

DATE DRILLED: September 12, 2005 DRILLING COMPANY: Al-Roy Drilling Inc.

NORTHING:

BORING/WELL ID NUMBER: B-2

TOTAL DEPTH: 40 ft

DRILLING METHOD: Hollow stem auger

SAMPLE METHOD: split spoon / 140 16. hammer

		•	nber	FID/ (pp				 				THING.	GEOLOGIC	DESC	RIPTION	EASTING						<u>8</u>	5
Depth (#)	Samples	Time (24 hr)	Sample Number	Sample	Breathing Zone	Blow Count	Recovery (ft)	% gravel	% sand	% non- plastic fines	% plastic fines	Lithologic Name	Color	Moisture	Density	Consistency	Plasticity	Angularity	Max. grain size	grading	Additonat Modifiers	Soil Class. Symbol	Lithologic Contact (ft bgs)
E			B-2/R-1									B" Apphili our. CLAY	brown	C) Mary		Sh.H	low			męd	hand augered to \$1. mulled.	ور	
10			B-2/R-2		25	9 20 30	1.5					CLAY	prosn	\$} ma ₁ ;		(H a r	lon			P		در	, – –
ie			B-2/R-3		<5	7 15	1.5					SILT, trace V. In around Sund	brown	SI					V. An	A		MC	- - -
			B-2 R-1	••••••	25	9	1.5			••••		Sict trace V. for grained rand	light brown	Mari		क्य				P	-	mı_	
			18-2 SPT-1		25	15	1.5	•				SILT, OVER SAND, V. Fine Grained, possil	light I broad	Moist	Md dense					P			-
		j	(continued)		65	15 20	1.5					7 - 5										SM SP	Attaonment
Ž	otes:							> 1/4 inch	visible -1/4 in.	visible with hand lens		See USCS flow Charts. Describe sand and gravel grading, le, fine to coarse grained	Use Munsell color chart if available	Dry Moist Wet	loose md.	soft md. Stiff	low	A Sa Sr R	in inches	poorly vs. well	odor, staining, minerology, stucture, cementation,		17.10

BORING/WELL ID NUMBER: 12-2

SUBSURFACE EXPLORATION LOG

CLIENT: Rainbow Disposal PROJECT NUMBER: 217E

LOCATION: 17121 Nichols Street Huntington Beach, CA SURFACE ELEVATION:

111990-ranteto-00051W/December December Institute

GEOLOGIST: Margaret Patrick
DATE DRILLED: September , 2005
DRILLING COMPANY: Al-Roy Drilling Inc.
NORTHING:

TOTAL DEPTH: 40

Page 2 of 2

DRILLING METHOD: Hollow stem auger

SAMPLE METHOD: split spoon / 140-16. hammer

	-											Tring.				EASTIN	<u> </u>						
1 1		ļ	ā	FID/I		}				٠.			GEOLOGIC	DESC	HIPTION								
		5	đ.	(ppi											1111 11011							豆	tg
Depth (ft)	ļ	Time (24 hr)	Sample Number	Sample	Breathing Zone	Blow Count	Recovery (ft)	% gravel	% sand	% non- plastic fines	% plastic fines	Lithologic Name	Color	Moisture	Density	Consistency	Plasticity	Angularity	Max. grain size	grading	Additonal Modifiers	Soil Class. Symbol	Lithologic Contact (ft bgs)
30+3	7		B-2/SPT-2	B3 San	u. ple 2. 25	71212						SILT, trace V. Fr grained Source, over CLAY, rund planting	light	SI		22:01	Med)i An	6			\$X-
35		l	13-2/SPT-3		15	19	1.5					SAND, for grained Soud, poor !!	yellowis	wet	and derce				fr	Ρ		SP	-
40-12	V		15 2 SPT-4	100000000000000000000000000000000000000	25	13 27 21	1.5					SAND, fortified grained, poorly Graded	dellamist Promo	S''4	derse	-	•••••		med	ρ		ા પુ	
				•••••					********			Notes: Total def	the colo	fe	et Nobres	2.	٦.٢	(م-					-
												bening b	neklike	1 0	14h 1	n link	S.i						Atta
																							Attachment 10
Notes:	GF	Soviet Coviet	winder comments	, رسله, 37 ¢	, ام. الم	duri	7	> 1/4 inch	visible -1/4 in.	visible with hand lens	not visible	See USCS flow Charts. Describe sand and gravel grading, ie, fine to coarse grained	Use Munsell color chart if available	Dry Moist Wet	Course: v. loose loose md. dense dense	md. Stiff			in inches	poorly vs. well	odor, staining, minerology, stucture, cementation,)

BORING/WELL ID NUMBER: 13-3

SUBSURFACE EXPLORATION LOG

CLIENT: Rainbow Disposal PROJECT NUMBER: 217E

LOCATION: 17121 Nichols Street Huntington Beach, CA SURFACE ELEVATION:

GEOLOGIST: Margaret Patrick / Laura Graw

DATE DRILLED: September 1 2, 2005
DRILLING COMPANY: Al-Roy Drilling Inc.

NORTHING:

TOTAL DEPTH: 25 ft

Page ____ of ___

DRILLING METHOD: Hollow stem auger

SAMPLE METHOD: split spoon /140 /b hammer

		ري.	nber	FID/								· ·	GEOLOGIC	DESC	RIPTION				 -			pa j	ಕ
Deoth (#)	Samples	Time (24 hr)	Sample Number	Sample	Breathing Zone	Blow Count	Recovery (ft)	% gravel	% sand	% non- plastic fines	% plastic fines	Lithologic Name	Color	Moisture	Density	Consistency	Plasticity	Angularity	Max. grain size	grading	Additonal Modifiers	Soil Class. Symbol	Lithologic Contact (ft bgs)
¥			B-3/R-1		45	3 144	15				044	12" Aspholf & concret I dail to fown cury, SI novish, med plasticity.		SI		SHIF				_	hardanger to 5°	CL	-
**			B- 3 / R- 2		25		1.5		**********			CLAT	beaus	C1		C. P.	<u>r.J.</u>			Ρ		CL.	
{-			B-3/R-3		15	70 25	1.5		********			CLAM, OVER SILT	light	SI Moist	*************	Shiff	low			P	Silt miraceou	e Cu	-
2	0 1		B-3/SeT-1	01-14-20-0	. 5	20	45		********	,		SILT, trace V. for grained small with CARTO, V. for grainer	light	SI-		Stita.	المدا		Ç	1>	Sound interbed afform the officer	ML	-
7	0 X		D-3/58T-2		25		1.5		********				(,							()	Sirada "	ML	- 25-
						19		-				CLAMEY SILT,	light brown.	SI MORS		Shor	100/			P			Attachmen
N	otes: To	ital council	depth=25 feet water not ener y Toaclefilled in	woter Mari	=d. d ative	terio.) }	> 1/4 inch	visible -1/4 in.	visible with hand lens	not visible	See USCS flow Charts. Describe sand and gravel grading, le, fine to coarse grained	Use Munsell color chart if available	Dry Moist Wet		soft	med low	A Sa Sr R	in inches	poorly vs. well	odor, staining, minerology, stucture, cementation,		10

BORING/WELL ID NUMBER: β - ψ

SUBSURFACE EXPLORATION LOG

CLIENT: Rainbow Disposal PROJECT NUMBER: 217E

LOCATION: 17121 Nichols Street Huntington Beach, CA

SURFACE ELEVATION:

GEOLOGIST: Margaret Patrick / Laure Skow

DATE DRILLED: September (2, 2005 DRILLING COMPANY: Al-Roy Drilling Inc.

NORTHING:

TOTAL DEPTH: 22 FA

Page ___ of ___!

DRILLING METHOD: Hollow stem auger

SAMPLE METHOD: split spoon / 14 16 hammer

			ATION:	FID/								THING:	GEOLOGIC	DESC	RIPTION	EASTIN	<u> </u>					<u>8</u>	#
Depth (ft)	Samples	Time (24 hr)	Sample Number	Sample	Breathing Zone	Blow Count	Recovery (ft)	% gravel	% sand	% non- plastic fines	% plastic fines	Lithologic Name	Color	Moisture	Density	Consistency	Plasticity	Angularity	Max. grain size	grading	Additonal Modifiers	Soil Class. Symbol	Lithologic Contact (ft bgs)
-				2002(4844)			,,,,,,,,,,,	4 64 7 7 7 7 7 7	**********		4414441111	6" Asplait & concrete over, CLAY	dk brown				ne			P	hund august th SI	CL	-
7-			B-4/R-1		45	e 6	25					CICTY CLAY, trace V. For covering send	prome	C1 Mois		firm	Mad		٠ ٢	P	Μάσταδύς	CL	-
2- 2- -	X9		B-4/R-2		r.<	10 72	1,5					CLAY, mounted	been	ww.(†		Z1.tt	174 <i>(</i> *		-	ť	Small way has Grand (c. lind diam) ^د ر	-
- ነ <i>ች</i> ሚ - -	I W		B-4/R-3		1.5	9 23	1,4					Shit, trace V.	1.gh Grown	S1 Wors		Sh:ff	ነጋያሶ		٧. ټم	٤		۸L	
21 <u> </u>	X X X	***********	8-4/SPT-1		4.5	19	1,5				************	Cray,	light brown to operacish	Mis.		Sha	na m			12	Oxidotika	CL-	Attacl
Note			T. 1 . 1 . 41 .	20	CI			ų.	'n.	# Si	.				Course:	Fines:						,	Attachment 10
		, p	Total depths no ground was during distlin pany knowlitte	X v	vitta	Jene.	12	> 1/4 inch	visible -1/4 i	visible with hand lens	not visible	See USCS flow Charts. Describe sand and gravel grading, ie, fine to coarse grained	Use Munsell color chart if available	Dry Moist Wet	v. loose loose md. dense dense	v. soft soft md. Stiff	med low	A Sa Sr R	in inches	poorly vs. well	odor, staining, minerology, stucture, cernentation,		

SUBSURFACE EXPLORATION LOG

CLIENT: Rainbow Disposal PROJECT NUMBER: 217E

LOCATION: 17121 Nichols Street Huntington Beach, CA SURFACE ELEVATION:

ACE EXPLORATION LOG

GEOLOGIST: Margaret Patrick / Laura Grown
DATE DRILLED: September / 2, 2005
DRILLING COMPANY: Al-Roy Drilling Inc.

NORTHING:

BORING/WELL ID NUMBER: 3-5

TOTAL DEPTH: 25 feet

Page __/_of _/_

DRILLING METHOD: Hollow stem auger

SAMPLE METHOD: split spoon / 140 16 hammer

	T		ATION:	FID/	PID						1101	THING:	····			EASTIN	<u>u. </u>					· · · ·	
		اء	nber	(рр								·	GEOLOGIC	DESC	RIPTION							ğ	t
Depth (ft)	Samples	Time (24 hr)	Sample Number	Sample	Breathing Zone	Blow Count	Recovery (ft)	% gravel	% sand	% non- plastic fines	% plastic fines	Lithologic Name	Color	Moisture	Density	Consistency	Plasticity	Angularity	Max. grain size	grading	Additonal Modifiers	Soil Class. Symbol	Lithologic Contact (ft bgs)
-												Asphalt & connecte			ž.						hand auger to 15 ft		_
5			B-5/R-1		45							CLAY,	brawa	No.75		<i>₩</i> (+	لہما		•••••	6		.Cu.	-
-	J.					18	1			. !		,	,										-
10			B-5/R-2	<u> </u>	.45						• • • • • • • • • • • • • • • • • • • •	COPYEY SILT DYCE	brown	21.		5+18£	Lau			5		MC	_
-	8		,			IX H	,					CLAY.		Mich								CL	=
15			B-5/E 3	3.05 Soc		78				*********	********	CARDY SILT, Y. FA	100,000	113.75		City A			***********	<u>f</u>			-
-	×	۱		113->	45	27	١					'									matted		
70			B = 1 SPI 1	1								MAN WITH SILT, OVER.	light From	SI		Ctief				. 6	monres.		-
-	X		,		< 5°	7 15 25	le;					carry, y the fronty or winds	FOUN	100.75	dence				fr.		***************************************	CC Sp	9°-
-			B-5/SPT- 2						ĺ] -
15 20	Ž				1.5	75 25	1.5				•••••	SILT, from V. fn. Growned special	About About	139.7		SKPF			fn: '	f	Μιζανθύνιζ	ML	Attachment 10
Notes	1	D= 2 propre dv.11.	Extract pod co	ing.		ار ام ۱۲۰۰ ا	· * · /	> 1/4 inch	visible -1/4 in.	visible with hand lens		See USCS flow Charts. Describe sand and gravel grading, ie, fine to coarse grained	Use Munsell color chart if available	Dry Moist Wet	loose md.	soft	med low	A Sa Sr R	in inches	poorly vs. well	odor, staining, minerology, stucture, cementation,		ent 10

BORING/WELL ID NUMBER: 6-6

SUBSURFACE EXPLORATION LOG

CLIENT: Rainbow Disposal PROJECT NUMBER: 217E

LOCATION: 17121 Nichols Street Huntington Beach, CA

at the second Gialmanh GIAI PARALAMAN STATE THE

SURFACE ELEVATION:

GEOLOGIST: Margaret Patrick / Laura. Skow DATE DRILLED: September 12, 2005.

DRILLING COMPANY: Al-Roy Drilling Inc.

NORTHING:

TOTAL DEPTH: Refuse

Page _____of ____

DRILLING METHOD: Hollow stem auger

SAMPLE METHOD: split spoon /140 16 hammer

Attachment 10

BORING/WELL ID NUMBER: 13-7

SUBSURFACE EXPLORATION LOG

CLIENT: Rainbow Disposal PROJECT NUMBER: 217E

LOCATION: 17121 Nichols Street Huntington Beach, CA

SURFACE ELEVATION:

GEOLOGIST: Margaret Patrick / Laura St. sw DATE DRILLED: September 12, 2005 DRILLING COMPANY: Al-Roy Drilling Inc.

NORTHING:

Page ____ of ____

TOTAL DEPTH: 25 ft
DRILLING METHOD: Hollow stem auger

SAMPLE METHOD: split spoon /140 16 harries

	, , , , ,	;	ATION:				,				NUN	THING:				EASTIN	<u>ن</u> :						
		<u>ت</u>	nber	FID/ (pp									GEOLOGIC	DESC	RIPTION							<u>8</u>	ช
Depth (ft)	Samples	Time (24 hr)	Sample Number	Sample	Breathing Zone	Blow Count	Recovery (ft)	% gravel	% sand	% non- plastic fines	% plastic fines	Lithologic Name	Color	Moisture	Density	Consistency	Plasticity	Angularity	Max. grain size	grading	Additonal Modifiers	Soil Class. Symbol	Lithologic Contact (ft bgs)
												3" aspt-14 dves CLAY algular gravel chinal diameter over	dle bining	21 Cl	•	<u>-</u> .	read			,	fill malerial	CL	_
5			B-7/P-1	040402010 441	65	7	1.5	•				IN A I	Lecoulo	SI Mais		SHIA	rred		*********	ined		C.	-
10 -			B-7/R-2		1	13						CLAY, OVEC.	light brown	St Mais	-	ट्या		1,5		(noc	girred 20,5 jnch machindradhadh		
, , , , , , , , , , , , , , , , , , , ,				A.Ik		7 24	1,5					Trace Second Accord	*****************	G)					••••••) Procedure and le C. C. M. 1767. 1		MU-
15		**********	B-7/E-3	r 1	<i>!</i>	77 1%	1,5				••••••	SILT	YOLONIO.	1419 141	***************************************	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	لبروا		**********	ſ		ML	- -
20	Ż		B.7/907-1									comb y to to forgoid	light Dienn	3001Z)	derso				En	P		\$9	
			15, 77) Sen - 2		4.5	9 17 20	15					Sixt truck y for co. d. OVES, CLAYEY SILT		(1)		firm			> cfs	P	micaco o US		
25	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		· · · · · · · · · · · · · · · · · · ·		د ح	15 7 D	1.5	*********		•••••	*******	OVES, CLAYEY SILT				1 11 10.			-	•••••		CL	Attachmen
Notes		OCL 1 1 14	depth = 25 = Fo delater not a 15 is brokfilled o					> 1/4 inch	visible -1/4 in.	visible with hand lens	not visible	See USCS flow Charts. Describe sand and gravel grading, ie, fine to coarse grained	Use Munsell color chart if available	Dry Moist Wet	loose md.	Fines: v. soft soft md. Stiff v.stiff	high med low non		in inches	poorly vs. well	odor, staining, minerology, stucture, cementation,	:	nent 10

BORING/WELL ID NUMBER: B-8

SUBSURFACE EXPLORATION LOG

CLIENT: Rainbow Disposal PROJECT NUMBER: 217E

LOCATION: 17121 Nichols Street Huntington Beach, CA SURFACE ELEVATION:

it 1990 - and ille and all it is the control of the state of the state

GEOLOGIST: Margaret Patrick / Laura Glous
DATE DRILLED: September / Z, 2005
DRILLING COMPANY: Al-Roy Drilling Inc.
NORTHING:

TOTAL DEPTH: 2 44 -

Page __/ of __/

DRILLING METHOD: Hollow stem auger SAMPLE METHOD: split spoon

		r)	nber	FID/ (pp							• •••		GEOLOGIC	DESC	RIPTION							pol	t
Depth (ft)	Samples	Time (24 hr)	Sample Number	Sample	Breathing Zone	Blow Count	Recovery (ft)	% gravel	pues %	% non- plæstic fines	% plastic fines	Lithologic Name	Color	Moisture	Density	Consistency	Plasticity	Angularity	Max. grain size	grading	Additonal Modifiers	Soil Class. Symbol	Lithologic Contact (ft bgs)
7	+ + + + + + +		Refusal				0				i	16" doncretc over, CLAYEY FILL Refusal encountered at 2 sect.	brown			•			,		hand auger Refused Descrite)	,	-
10	1 1 1 1	******						,	*****			Notes: Total		1	1								- - - - -
									-			, Gran	network	cr hv.	1101	en ce widls	110	,	10 S	duri	ng drilling		- - -
	+ +																						-
	+ + + + + +																					•••••	At
		-2074-2-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7						********	• • • • • • • • • • • • • • • • • • • •	•••••••						************				*************			Attachment 10
Not	1			I	ı			> 1/4 inch	visible -1/4 in.	visible with hand lens	not visible	See USCS flow Charts. Describe sand and gravel grading, ie, fine to coarse grained	Use Munsell color chart if available	Dry Moist Wet	v. loose loose md. dense	soft md. Stiff	med low	A Sa Sr R	in inches	poorly vs. well	odor, staining, minerology, stucture, cementation,		0

BORING/WELL ID NUMBER: B-9

Page ____ of ____

SUBSURFACE EXPLORATION LOG

CLIENT: Rainbow Disposal PROJECT NUMBER: 217E

LOCATION: 17121 Nichols Street Huntington Beach, CA

SURFACE ELEVATION:

GEOLOGIST: Margaret Patrick DATE DRILLED: September , 2005 DRILLING COMPANY: Al-Roy Drilling Inc. NORTHING:

TOTAL DEPTH: 2 ft DRILLING METHOD: Hollow stem auger

SAMPLE METHOD: split spoon

		÷	nber	FID/									GEOLOGIC	DESC	RIPTION				•		<u> </u>	75
Depth (#)	Samples	Time (24 hr)	Sample Number	Sample	Breathing Zone	Blow Count	Recovery (ft)	% gravel	% sand	% non- plastic fines	% plastic fines	Lithologic Name	Color	Moisture	Density	Consistency	Plasticity	Angularity Max. grain size	grading	Additonal Modifiers	Soil Class, Symbol	Lithologic Contact (ft bgs)
	-		Frefusal								•	(o" controls over, elige) Fill Refusal encountered at 2 feet:	da Brown							hard augur Refusal, E 2 feet (concerte))	- -
- - lo							*****	••••	*********	1 84 64 34 4 B D	*********	Notes: Tatal , Refrisa , Ground , Isning	Depth Perco	= 2	feet and c	# Z	·fe.	+ Jui	ing o	rilling		
-												7.750.1103	ARCS	(-2	ω, τ	n na	-11 PG	30/1				
								-	-		•••••											Attac
Note								> 1/4 inch	visible -1/4 in.	visible with hand lens	not visible	See USCS flow Charts. Describe sand and gravel grading, ie, fine to coarse grained	Use Munsell color chart if available	Dry Moist Wet	loose md. dense	soft md. Stiff	high / med S low S non F	Sa in Sr inche	poorly s vs. well	odor, staining, minerology, stucture, cementation,		Attachment 10

BORING/WELL ID NUMBER:

SUBSURFACE EXPLORATION LOG

CLIENT: Rainbow Disposal PROJECT NUMBER: 217E

_OCATION: 17121 Nichols Street Huntington Beach, CA

SURFACE ELEVATION:

GEOLOGIST: Margaret Patrick / L CMAY (2. ちょう) DATE DRILLED: September 13, 2005 DRILLING COMPANY: Al-Roy Drilling Inc.

NORTHING:

TOTAL DEPTH:

Page ____ of ___

DRILLING METHOD: Hollow stem auger

SAMPLE METHOD: split spoon

		ir)	nber	FID/ (pp									GEOLOGIC	DESC	RIPTION							lpql	ţ
Depth (ff)	Samples	Time (24 hr)	Sample Number	Sample	Breathing Zone	Blow Count	Recovery (ft)	% gravel	pues %	% non- plastic fines	% plastic fines	Lithologic Name	Color	Moisture	Density	Consistency	Plasticity	Angularity	Max. grain size	grading	Additonal Modifiers	Soil Class. Symbol	Lithologic Contact (ft bgs)
			> refusal								***********	4"Applied wor 6" corever CLAMENT FILL Refised at 250	Light							**********	hand augen Referred 6 2 feet Lancarde		
											*********	Notes: Flaturate Grandite boring be		7	}		•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
									•••••			all-ind east,- re	from de	ian Wra	atter	ipird	17 d 3	6 .C.	Mrs.	(t.li)	£1		
																•••••	**********			,			Attachment 10
otes); 							> 1/4 inch	visible -1/4 in.	visible with hand lens	not visible	See USCS flow Charts. Describe sand and gravel grading, ie, fine to coarse grained	Use Munsett color chart if available	Dry Moist Wet	loose md. dense	soft		A Sa Sr R	in inches	poorly vs. well	odor, staining, minerology, stucture, cementation,		j·

BORING/WELL ID NUMBER: 15-1

SUBSURFACE EXPLORATION LOG

CLIENT: Rainbow Disposal PROJECT NUMBER: 217E

LOCATION: 17121 Nichols Street Huntington Beach, CA

SURFACE ELEVATION:

GEOLOGIST: Margaret Patrick / Lave A (1907)
DATE DRILLED: September 12, 2005

DATE DRILLED: September 1-2, 2005
DRILLING COMPANY: Al-Roy Drilling Inc.

NORTHING:

TOTAL DEPTH: 50 ft

Page 1 of 2

DRILLING METHOD: Hollow stem auger

SAMPLE METHOD: split spoon / 11/2 1/2 homer

		÷	nber	FID/I					-				GEOLOGIC	DESC	RIPTION	<u> Litotiit</u>						<u>8</u>	ict
Depth (ft)	Samples	Time (24 hr)	Sample Number	Sample	Breathing Zone	Blow Count	Recovery (ft)	% gravel	% sand	% non- plastic fines	% plastic fines	Lithologic Name	Color	Moisture	Density	Consistency	Plasticity	Angularity	Max. grain size	grading	Additonal Modifiers	Soil Class, Symbol	Lithologic Contact (ft bgs)
5			B-1/cet1	8.5	والإ							B" asphal, Huyving CLAY,	Brown	13 C 182		firm				mď	March organ	CL	-
	XX		B-1/587-Z	~ \$		<u>.</u>	1.5			,		CLAY	Brown	dans	_	21- L+	اروا		************************	frig/		ئات	
	X, X		B-1/5CT-3	~ <	~ C		1.5				. 744	CLANCY SICT	high.d BROWN	١ .			امدا		••••	C		ML	- - - -
20		, 19140-1910-1910	15-1/set-4	P. II	¥. 1,5		1.5					SAME PS ABOLE							***********	P		ML	- - -
-	Ž		B.11597-5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<i><.</i> 5	10	1,5					SHIT, ONCHE SHIP, V. Fine Grand (Grindh langer); over	light britein	W#. 14	_	ሪትርፋ	ስየረ		fn	the 3		MC	Atta
Z Notes		•	(continued)	:		361	1,5															KP.	Attachment 10
Notes						*****		> 1/4 inch	visible -1/4 in.	visible with hand lens	not visible	See USCS flow Charts. Describe sand and gravel grading, ie, fine to coarse grained	多ら端	Dry Moist Wet	md.	soft		A Sa Sr R	in inches	poorly vs. well	odor, staining, minerology, stucture, cementation,		

APPENDIX B

PTS Laboratories

Project Name: Project No.:

Rainbow Disposal 217 E

TEST PROGRAM

CORE ID	Depth ft.	Number of Containers	Moisture Content ASTM D2216	Bulk Density ASTM D2937	Consolidation ASTM D2435	Direct Shear ASTM D3080	Expansion Index ASTM D4829	HOLD	Notes
		Plugs:	Grab	Bulk	Whole Core	Whole Core	Whole Core		
B-1/SPT-1	6	1 1			·		•	Х	Consolidation:0.5,1.0,2.0 H2C
B-1/SPT-2	11	1						Х	4.0,8.0, 0.5 ksf
B-1/SPT-3	16	1					-	Х	Direct Shear: 0.5, 1.0, 2.0 Ksf
B-1/SPT-4	21	1		·			****	Х	
B-1/SPT-5	26	1						Х	
B-1/SPT-6	31	1	-					Х	
B-1/SPT-7	36	1						Х	
B-1/SPT-8	41	1						х	
B-2/R-1	6	1	Х	Х	х				
B-2/R-2	11	1	Х	Х				Х	
B-2/R-3	16	1	Х	X	X				
B-2/R-4	21	1	Х	X	Х				
B-2/SPT-1	26	1						Х	
B-2/SPT-2	31	1						Х	
B-2/SPT-3	36	1						Х	
B-2/SPT-4	41	1						Х	
B-3/R-1	6	1	Х	Х		Х			
B-3/R-2	11	1	Х	Х					
B-3/R-3	16	1	Х	Х					
B-3/SPT-1	21	1			_			Х	
B-3/SPT-2	26	1						Х	
B-4/R-1	8	1	X	Х		Х			
B-4/R-2	13	1	X	Х					
B-4/R-3	18	1	X	х	х				

PTS Laboratories

Project Name: Project No.:

Rainbow Disposal 217 E

TEST DROGRAM

		Number	Moisture	Bulk	Consolidation	Direct	Expansion		
CORE ID	Depth ft.	of Containers	Content ASTM D2216	Density ASTM D2937	ASTM D2435	Shear ASTM D3080	Index ASTM D4829	HOLD	Notes
		Plugs:	Grab	Bulk	Whole Core	Whole Core	Whole Core		
B-4/SPT-1	23	1						Х	
B-5/R-1	6	1						Х	
B-5/R-2	1	1						Х	
B-5/R-3	16	1						Х	
B-5/SPT-1	21	1						Х	
B-5/SPT-2	26	1						Х	
B-7/R-1	6	1	Х	X	×				
B-7/R-2	11	1	Х	Х					
B-7/R-3	16	1	Х	Х	X				
B-7/SPT-1	20	1						Х	
B-7/SPT-2	25	1						Х	
Bulk Sample B-1	15-25	1						Х	
Bulk Sample B-2	25-35	. 1						Х	
Bulk Sample B-7	10-20	1		·				Х	
Bulk Sample B-5	10-20	1						Х	
B-11/R-1	6	1	X	X	X				
B-11/R-2	11	1	х	х					
B-11/R-3	16	1	Х	Х					
B-11/SPT-1	20	1						х	
B-12/R-1	6	1			•			Х	
B-12/R-2	11	1						х	
B-12/R-3	15	1						Х	
B-12/SPT-1	20	1			·			Х	
B-13/R-1	6	1						Х	

Project Name: Project No.:

Rainbow Disposal 217 E

TEST PROGRAM

		· -			PRUGRAM				
		Number	Moisture	Bulk	Consolidation	Direct	Expansion		
CORE ID	Depth	of	Content	Density		Shear	Index		
	ft.				ASTM D2435		ASTM D4829	HOLD	Notes
		Plugs:	Grab	Bulk	Whole Core	Whole Core	Whole Core		
B-13/R-2	11	1						X	
B-13/R-3	16	1						Х	
B-13/SPT-1	20	1						Х	
B-14/R-1	6	1	Х	Х	X				
B-14/R-2	11	1	Х	X					
B-14/R-3	16	1	X	X					
B-14/SPT-1	20	11						X	
B-15/R-1	6	1	X	X					
B-15/R-2	11	1	X	X	X				
B-15/R-3	15	1	X	X					
B-15/SPT-1	20	1						Х	
B-16/R-1	6	1						Х	
B-16/R-2	11	1						Х	
B-16/R-3	15	1						Х	
B-16/SPT-1	20	1						Х	
B-17/R-1	5	1						Х	
B-17/R-2	10	1						Х	
B-17/R-3	15	1						Х	
B-17/SPT-1	20	1						Х	
B-18/R-1	5	1						Х	
B-18/R-2	10	1						Х	
B-18/R-3	15	1						Х	
B-18/SPT-1	20	1						Х	
Bulk Sample B-13	10-20	1						Х	

Environ Strategy PTS File No: 35562

Project Name:

Rainbow Disposal

Project No.:

217 E

TEST PROGRAM

CORE ID	Depth ft.	Number of Containers	Moisture Content ASTM D2216	Density	Consolidation ASTM D2435	Shear	Expansion Index ASTM D4829	HOLD	Notes
		Plugs:	Grab	Bulk	Whole Core	Whole Core	Whole Core		
Bulk Sample B-14	10-20	1						×	
CNG Dispenser Front	2-5	1					x		
TOTALS:		74	22	22	9	2	1	52	

Laboratory Test Program Notes

Sample locations to be picked from core photos by Environ Strategy personnel.

Unit Cost, \$	12.00	25.00	354.00	630.00	264.00	5.00
Test Total, \$	264.00	550.00	3186.00	1260.00	264.00	260.00
Sample Disposal, \$	148.00					
EDD, \$	5.00					
Est. Project Total, \$	5937.00					

	5 F	ILE#	t	CHAIN	0	F	Çl	JS	T	OL	Y	R	EC	0	RI)							لَا إ	-	Ά	G	E	1		OF	•	*	
COMPANY												A٨	IAL	YS	IS F	RE	QU	ES	Γ	•			000				PO#	2	17				
ENVIEW STRAT	10	Y	·												T			T	T		T		07 0 4		T					DLING			
ADDRESS So HOGHTS PROJECT MANAGER					요								-				API RP40	ļ			ĺ		포					DURS		5	DAYS	3	
PROJECT MANAGER					1 RP40						525				1	1	AP.				1.		-2.0			}		OURS	į	N	ORM.	W been and and	'
PROJECT NAME PROJECT NUMBER PROJECT NUMBER	5. 10		· I	PHONE NUMBER	, A	16					ASTM D425	425M	- [9100		Ž .			V-	1,0				OTHE	:R 					\dashv
PANBON DISPOS	AL		949- 4	181-3222	CKAG	A D22				g l		D MT		_	<u>"</u>	ğ l	, EPA			143		30	0.1-			1	SAMI	PLE C	ONE	NOITIC	s		
PHOJECT NUMBER		•		FAX NUMBER	ES PA	AST		3P40	8	PI RP	WIEL	E, AS		MES	LASE	ğ	<u></u>		1	Σ S	ğ *	Market 3	2.0			'n	RECI	EIVED	ON C	ICE	YE	S/NO S/NO	
SITE LOCATION	ب		. 1		Ē	CONTENT, ASTM D2216	3P40	API	P R	ξ. A.	TION	SSUR	£	400	ΛE &	E	Sec.	Š		S.	ES	8	è			<u> </u>	SEAL	ĒΒ∙	a	· · · · · · · · · · · · · · · · · · ·		S/NO	
SAMPLER SIGNATURE	_{\frac{1}{2}}	EAC	14		P P P	SON	APIF	ISITY,	ξŽ	ABIL	ETE	PRE	% 90°	ě.	i: SE	8	Ś		֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	M I		200	da			SA	<u> </u>	1173					\dashv
SAMPLER SIGNATURE	44.8.				Ğ.	LARE	SITY,	N O E	DEN	ERME	FICE	LARY	oH, E	SIZE	SIZE	SIZIS	AULK	¥ }	AUCK.	EH REH	Ω, M	The	Consolidation 0.5			Ä				MEN	15		_
SAMPLE ID NUMBER		ATE	TIME	DEPTH, FT	PHYS	MOISTURE CONTENT,	PORC	GRAIN DENSITY, API RP40	BULK DENSITY, API RP40	AIR PERMEABILITY, API RP40	SPECIFIC RETENTION/YIELD	CAPILLARY PRESSURE, ASTM D425M	SOIL pH, EPA 9045	GRAIN SIZE: DRY; 400 MESH	GRAIN SIZE: SIEVE & LASER	GRAIN SIZE: LASER; 1 MICRON	HYDRAULIC CONDUCTIVITY, EPA 9100,	TOC: WALKLEY-BLACK	TYP.	ATTERBERG LIMITS, ASTM D4318	TNRCC PROPERTIES PACKAGE	17	૭			NUMBER OF SAMPLES							,
B-1/587 -1	9/1	2/05		G																		x				1							
B-1/SPT- 2				14																		1		_		1							
B-1/SPT-3	<u> </u>			16							<u> </u>														·	1							
B-1/SPT-4				21																						4							
B-1/5PT-5				26																						i							
B-1 SPT - 6				3								ŀ														j							
B-11 SPT-7				36																													
B-1/SPT - 8				41																		V				1							
B-2/R-1			,	G		X		·	X														X			1							
B-2/R-2				11		X			×	1												-				1							
B-2/R-3		V		116		X			X						·							_	X	,		1						Attac	-
1. RELINGUISHED BY			2. RECE	WED BY	<u> </u>			<u> </u>		3.	REL	NQI	JISH	ED	ΒY		<u> </u>	·					4. Fi	ECE	IVÈ	DΒ	Ϋ́					dhm.	
COMPANY			COMPAI	5 67535			,			cc	MP	ANY	<u> </u>					 •					COI	MPA	NY	:					,	hment 1	
DATE, TIME	a: b	5	DATE	3/05	IME	60		—— 7		DA	TE						TIN	ΛE.					DAT	E	-				TIN	ΛE ·		-	

PTS GeoLabs, Inc. • 8100 Secura Way • Santa Fe Springs, CA 90670 • Phone (562) 907-3607 • Fax (562) 907-3610 PTS GeoLabs, Inc. • 4342 W. 12th St. • Houston, TX 77055 • Phone (713) 680-2291 • Fax (713) 680-0763

PTS GeoLabs, Inc. • 8100 Secura Way • Santa Fe Springs, CA 90670 • Phone (562) 907-3607 • Fax (562) 907-3610

	PTS FILE#		CHAIN	O	F	Cl	JS	TO	D	/ F	E	CC	RI	D						<u>ب</u>	٠.	P	4G	iE 🔰	OF	- Longham
COMPANY										Α	NA	LYS	IS	RE	QU	ES	Ţ	.,		y K	· L			PO# 21-	7 E	
ENVIRAN STY	41267					Ċ					T									6.5				SPECIAL HAND		
ADDRESS 30 HUSHTS PROJECT MANAGER															RP40					11	1			24 HOURS	5 DA) NORI	<u>rs</u>
PROJECT MANAGER		and a contract of		1 RP40					Ŕ	3					API					7:0				72 HOURS	NOR	MAE
PROJECT NAME	MICK	949-58	PHONE NUMBER	F Ap	و				ACTM DAPS	25M					9100		3 5		1/2	0.0	1	1		OTHER		
PROJECT NAME PROJECT NAME PROJECT NUMBER	SAL		·	Ϋ́AĞ	022			1.	0 0	N N			_	S	EPA			2 4	1 1/4		۱ ۴	į		SAMPLE CONI	DITIONS	
PROJECT NUMBER			FAX NUMBER	SPAC	ASTM		P40	8	NEI Y	ASI		MESH	ASEF	MICH	TIVI			ASIM CASIO	Charles March	0	0	1		RECEIVED ON	I ICE Y	ES/NO
SITE LOCATION SAMPLER SIGNATURE	· · · · · · · · · · · · · · · · · · ·			ĮË,	ENT,	240	AP! R	윤	4 E	SURE	,	400	E&L	H.	D)C	ğ		() Y	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	`_\$	Shear		PLES	SEALED OTHER,	· Y	'ES/NO 'ES/NO
HUNDING TON	BENCH			- g	Š	<u>4</u>	YTY,	Ι, Α		PHES	4 904	DRY	SIEV	LASE	8	EY-BI					4		SAM	TAMBIE		
SAWIPLEN SIGNATORE	·			AL P	- RE	SITY,	DEN	SENSI	RME	2 8	H. EP	SIZE	SIZE	SIZE	MLIC	ALK			2 6	ا ا	1	,	in Offi	COM	IMENTS	3
SAMPLE ID NUMBE	R DATE	TIME	DEPTH, FT	PHYSICAL PROPERTIES PACKAGE, API	MOISTURE CONTENT, ASTM D2216	POROSITY, API RP40	GRAIN DENSITY, API RP40	BULK DENSITY, API RP40	AIR PERMEABILITY, API RP40	CAPILLARY PRESSURE, ASTM D425M	SOIL pH, EPA 9045	GRAIN SIZE: DRY; 400 MESH	GRAIN SIZE: SIEVE & LASER	GRAIN SIZE: LASER; 1 MICRON	HYDRAULIC CONDUCTIVITY, EPA 9100, API RP40	TOC: WALKLEY-BLACK	HYDRAULIC CONDUCTIVITY PACKAGE	ALLEHBERG LIMITS, ASTM 045	Sulface, and	3	7		NUMBER OF SAMPLES			
13-4/12-2	9/2/05		. 13		X			X											,				ļ			
B-4/8-3	9/12/05	·	(8		$ \lambda $			X												\	4		1			
13-4/SPT-1	7/12/05		23			·														<			1			
B-5/8-1	Nizlos		6																	X			1			
13-5/E-Z	9/12/07		11																	X			1			
B-5/R-3	7		16																;	<			1			
B-5 /SPT-			21																	X			1			
SB-5/SPT-	2 1/12/05		26																,				1			
B-7/P-1	9/12/05		6		X			X												/	<>	4	•			•
SB-7/R-2			11		X			X															1			
SB-7/R-	1/ , ' , '	,	16,		X	4		X											Τ,	\	1		E.		,	Attac
1. RELINQUISHED BY	1 1	2. RECE	1600						3. RE	LIN	วบเร	HEC	BY								RE			BY		hme
COMPANY		COMPAI	3 4135			-	٠		COM	IPAN	Y					******				C	OMF	MA	7			₽ 1
	TIME /6 05	DATE	3/00	IME	/	tre	رج	,	DATE	≣ ¹					TIN	ΛĒ				D	ATE			TI	ME	

PTS GeoLabs, Inc. • 8100 Secura Way • Santa Fe Springs, CA 90670 • Phone (562) 907-3607 • Fax (562) 907-3610 PTS GeoLabs, Inc. • 4342 W. 12th St. • Houston, TX 77055 • Phone (713) 680-2291 • Fax (713) 680-0763

DATE P	TS FILE#	!	CHAIN	0	F	Cl	JS	T	C	Y	R	EC	0	RI)						مر م		P	AC	ìΕ	4	(OF	· · · · · · · · · · · · · · · · · · ·	<u> </u>
COMPANY											A٨	IAL	YSI	SF	RE(วบเ	EST	-			H20				POŧ	‡ <u></u>	217	E		
ENVIRON ST	MIEGY												T	T	T	T	T	T			kir				SPE	CIAL H	IANDI	LING		
ADDRESS 30 HUGITAS. PROJECT MANAGER	57E 20	25		8												API RP40	ļ				0					OURS OURS			DAYS DRMA	
PROJECT MANAGER	XILV	946.5	81-37.22	API RP40						3425	5					8, AP	<u>.</u>				0-2-	1			OTH			:	NINK.	
PROJECT NAME	A Alexander	F	PHONE NUMBER		2216					ASTM D425	D425		.		_	74 910	CKAG	8	·	3	0. 5- 1.0									
PROJECT MANAGER MANAGARET PAS PROJECT NAME FANASON DISMOS PROJECT NUMBER	196		FAX NUMBER	ES PACKAGE,	CONTENT, ASTM D2216		g		3P40		ASTM		됐	SER	CHO] <u> </u>	7	ASTM D4318	KAG	Shirt of Lines	. 1					PLE C		į.	S YES	·MO
SITE LOCATION		·		RTIES	NT, AS	5	PI RP40	API RP40	, API	IONVI	URE,		400 M	* X	- -			S AST	ES PA	133	5			LES	SEAL	LED	ON I		YES	S/NO
HUNTING EN BE	MCH			3OPE	SNT E	PI PI	TY, A		BILT	TENT	RESS	9045	DRY.	SIEVE	I VSEI				TH T		\$ 	\$		SAME						
SAMPLER SIGNATURE	Surv	. Inn't desire.		CAL PI		NTY, A	DENS	ENS	RMEA	-IC RE	ARY F	H, EP	SIZE	SIZE	SIZE	OFIC		EBG S		6	3	3		R OF		CC	ИМС	MEN	rs	
SAMPLE ID NUMBER	DATE	TIME	DEPTH, FT	PHYSICAL	MOISTURE	POROSITY, AP! RP40	GRAIN DENSITY, API	BULK DENSITY,	AIR PERMEABILITY, API RP40	SPECIFIC RETENTION/YIELD	CAPILLARY PRESSURE, ASTM D425M	SOIL pH, EPA 9045	GRAIN SIZE: DRY; 400 MESH	GRAIN SIZE: SIEVE & LASER	GRAIN SIZE: LASER; 1 MICHON	HYDRAULIC CONDUCTIVITY, EPA 9100,	HANDBAILLIC CONDUCTIVITY PACKAGE	ATTERBERG LIMITS	TNBCC PROPERTIES PACKAGE	1	Cochation	9		NUMBER OF SAMPLES						
13-7/SPT-1	9/12/05		20																	X				1						
12-7 Set = 2	9/12/05		25						_	_					\downarrow								_	1	ļ			;	:	
BULK SAMPLE B-1	1/12/05		15-25										.			_	_	<u> </u>				\downarrow	<u> </u>	1					·	
BULK SAMPLE B-	2 7/12/05		25 -35				L	<u> </u>							_	_		_	1			\perp	-	1	<u> </u>				· 	
BULK SAMPLE B-	79/12/05		10-20				Ľ											1				_		1	<u> </u>					
BULK SAMPLE B-	5 917/ce		10-20		_		_												1	N	4			1					<u>!</u>	
B-11 /R-1	9/13/05	·	6		X		L	X	1							_	_				\\	(1					<u> </u>	
B-11/R-2	1113/05		11		X			X	<u> </u>															1						
B-11 /R-3	913/05		16		X			X																					· 	
B-11 SPT-1	9/13/05		.20				<u> </u>	<u> </u>		_										X			1	1						Atta
B-12/R-1	9/13/05		1.6				L													\				1						chment
1. RELINQUISHED BY	•	2. RECE	IVED BY			•			3. 1	REL	INQI	JISH	ED	BY						•	4.	. RE	CEIV	/ED	BY					
COMPANY		COMPAN	3 4885						cc	MP	ANY				 ;	,					C	ОМІ	ANY	7						ਰੇ
DATE	ME 1615	DATE	, , T	ME	10		2)	-	DA	TE						TIM	E				P	ATE	•				TIM	Ē	:	

			O 3 17 111 1	•		_	•	•			-			-				- 7						<u> </u>
COMPANY							· ·		· .	Al	NAI	YS	IS I	RE	QŲ	ES1	•	20	Å					PO# 217 E
ENVIRON STRAM	164			П	Т	Ť		Τ	1.	T		П					Τ		7				1	SPECIAL HANDLING
ADDRESS 3C) Hughts 572 PROJECT MANAGER	\$ 209	CITY	ZIP CODE											ΣΨ	RP40			OKEF P	7					24 HOURS 5 DAYS
PROJECT MANAGER				RP40					۵					446	₽.			10	ó		Ì	ļ		72 HOURS NORMAL
MARGARET MIKE	ec ?		7-3222			- -		١.	24	, <u>s</u>		₹.	끯	75	8	ű		9	1					OTHER
PROJECT MANAGER WARGARET PATRI PROJECT NAME PROJECT NUMBER	23-7	P	HONE NUMBER	ES PACKAGE, API	ASTM D2216	.	و	2	ASTM D425	D42		D425	CKA	TMI	PA 9	ACK A	318	1-50		٠.			:	SAMPLE CONDITIONS
PROJECT NUMBER	, , , , , , , , , , , , , , , , , , , ,	······································	FAX NUMBER	Š	Σ	ş .	0,00	1 4		STA		STM	S P/	ž	ξ.			0	1 1					
X/FE				ES	T, AS	API RP40	API HP40	AP P	Ž	RE, A		VE. A	ERTIE	2	Ž I	<u>ا</u> کا ک	AST	40	Ea/				EŞ,	RECEIVED ON ICE YES/NO SEALED YES/NO
SITE LOCATION HUNTINGTON BIT	ACH			OPERI			, A	T	FINT	RESSU	9045	FECTI	PROP	DISTRIBUTION, ASTM D422/4464M	OND		MITS	dat	S	1 1			SAMPL	OTHER YES/NO
SAMPLER SIGNATURE	FILENS			CAL PR	UREC	POROSITY: TOTAL,	GHAIN DENSILY,	BULL DEINSTER (DRF), AFT AF	SPECIFIC BETENTION/YIELD	CAPILLARY PRESSURE, ASTM D425M	H, EPA	POROSITY: EFFECTIVE, ASTM D425M	TCEQ/TNRCC PROPERTIES PACKAGE	SIZE	HYDRAULIC CONDUCTIVITY, EPA 9100,	LOC: WALKLEY-BLACK	ATTERBERG LIMITS, ASTM D4318	scolidati	さっ	H21d			NUMBER OF SAMPLES	COMMENTS
SAMPLE ID NUMBER	DATE	TIMĘ	DEPTH, FT	PHYSIC	MOISTURE	PORO	SHAIN S	AIR P	S C	CAPIL	SOIL pH.	PORO	TCEO/	GRAIN SIZE	HYDR		ATTER	ز	ă				NUMB	
13-12/R-2	9/17/05																							
B-12/R-3	9/13/05		15																					
B-12/5PT-1	1/13/05		20																					
15-13/P-1	9/3/05		6																					
B-13/R-2	9/13/05		11																					
B-13/8-3	113/45		16						.								ŀ					,		
B-13 SPT-1	9/13/05		20												.					V		ļ	1	
13-14/R-1	71305		6		X			X										>	X					
13-14/R-2	9/13/05	·	11		X			X										<u> </u>		خا				
B-1-1/e-3	4/13/05		16		X			X		. -		-			•					13.				
13-14 SPT-1	61/18/05		20,																	X	L		<u> </u>	Atta
1. RELINQUISHED BY	- 1	2. REÇE	YED BY			٠.		3	RE	LINC	SIUIS	HED	BY	•	. •				•	4. 1	REC	EIV	ED 1	BY H
COMPANY	<u> </u>	СОМРА	IY 1 Acom			•		c	ОМ	PAN	7) .					·			CC	MP.	ANY		ent
DATE TIME		DATE	TS LANGE	IME .					ATE	. ••					: TIM	Ē				DA	TE			TIME 3
7/13/05	11.00	7,	113/or T		16	0	9	- 1								-					٠.	•		· ····

DATE PT	S FILE#		CHAI	N C	F	Cl	JS	TC	DC	Y	RI	EC	0:	RI)						9	F	PA	GE	=	6	0	F		
COMPANY											ΑN	AL	YS	SF	REC	UE	ST				7			F	°O#	2	17	E		
FRAREN STRATE	91/				ν,					T				T	Ţ		T	Π			H		Τ		3PECI		NDLIN	-		
FILLAREN STRATE ADDRESS HUGHTS, 5 PROJECT MANAGER	DE 209			RP40											0	1				اما	O KSF			2	24 HO 72 HO	URS URS	(5 DAY	(S. MAL)	
PROJECT MANAGER MANAGET AS	WICE	Gyg.	-581-3122	API F						D425	Σ.	١			3	3	넁			78 K. S	2-5				OTHEI	R	•	AND DESCRIPTION OF STREET	Y. Harden	
PHOJECT NAME RAIN BOW DIS PO	5 MG	F	HONE NUMBER	KAGE,	ASTM D2216					ASTM D425	M D425				z 8	8	PACKA	4318		3 78	5-1.0				SAMP	LE CC	NDITIO	ONS		\dashv
PROJECT NUMBER			FAX NUMBER	PHYSICAL PROPERTIES PACKAGE,	IT, ASTM	0	1 RP40	RP40	AIR PERMEABILITY, API RP40	SPECIFIC RETENTION/YIELD	CAPILLARY PRESSURE, ASTM D425M		GRAIN SIZE: DRY; 400 MESH	GRAIN SIZE: SIEVE & LASER	GRAIN SIZE: LASER; 1 MICRON	HYDRAULIC CONDUCTIVITY, ETA 9100, ATTACTOR TO TO THE THE TO THE T	HYDRAULIC CONDUCTIVITY PACKAGE	ATTERBERG LIMITS, ASTM D4318	TNRCC PROPERTIES PACKAGE	And	Consolidation 0,5-1.0-2.0 Ksf		ű	2 3	RECEI SEALE OTHE	IVED (ON ICE	Y	ES/NO	o 1
SITE LOCATION HUNTTIME SAMPLER SIGNATURE 13	RACH			OPER	ONTE	PI RP4	ITY, AP	γ, API	ВІГТХ,	TENTI	PESSU	9045	DHY; 40	SIEVE	LASER		S S	LIMITS	ERTE	1. F.	a t		Idwys		OTHE!	3 112/3	1574	Y	ES/NO)
SAMPLER SIGNALIZHE	· ·	15.3		CAL PF	MOISTURE CONTENT,	POROSITY, API RP40	GRAIN DENSITY, API RP40	BULK DENSITY, API RP40	RMEA	FIC RE	ARY F	SOIL pH, EPA 9045	SIZE:	SIZE:	SIZE	TOC: WALKI EX-BLACK	SEIC O	BERG	PROF	Hus	5,105		MI MADED OF CAMPIES			СО	MME	ENTS	}	
SAMPLE ID NUMBER	DATE	TIME	DEPŢH, FT	PHYSI	MOIST	PORO	GRAIN	NUB	AIR PE	SPEC	CAPIL	SOIL p	GRAIN	GRAIN	GRAIN	AU Y	HYDR/	ATTER	TNRC	H	3		1840							
B-15/R-1	4/13/05		6		X	<u> </u>		X																١						
13-15 /R-2	1/13/05		11		X			X													X			I						
13-15/8-3	9/13/05		15		X	<u>'</u>		X																1					der	
B-15/SPT-1	9/13/05		26																	X			1							
13-16/R-1	913/05		6																				ļ							
B-10/R-2	1/13/05		11							·														1						
13-16/8-3	113/05		15						·				,	•	(141	- : a	-,	ر	د.د.					1						
13-16/SET-1	4)13/05	***************************************	20																					•	***************************************				,	
13-17 R-1	9/3/05		5								,																			
B-17/R-2	9/3/05		16		Ė															V				1						₽
B-17/e-3	9/13/03	٠	1.15	· Par	·															X				1	,					chment
1. RELINOUISHED BY		2. RECEI	ILLY						3. F	RELII	NQU	JISH	ED	BY								REÇE) B	/— 				(Ď
COMPANY		COMPAN	7 4135						CO	MPA	NY		,					-,			CO	MPAN	1Y						(Ö
DATE 9/13/0 TIME	1,00	DATE	Blos	TIME	16	-	 }		DAT	TE						TIME			•		DA	ΓE					TIME			

DAIL	PTS FILE	Ξ#	CHAIN	10	F	Çl	<u>J</u> S	T	<u> </u>	<u>Y</u> .	RE	EC	0	RC)								PΑ	\G	E		OF	1	<u> </u>
COMPANY									:		AN.	AL.	YSI	S F	REC	UE	ST								PO# ¿	2/	7 · E	• .	
ENVIRON S	12147897										T				T		T								ŚPECIAL				
ADDRESS 30 HWG HT PROJECT MANAGER PROJECT NAME PROJECT NUMBER PROJECT NUMBER	5.572 5	C7		9										1	PP40					1			١	1	24 HOUR		5 (OAYS. ORMA	
PROJECT MANAGER	- Arms		To and the state of the state o	I RP40						52					ΔPI		.								72 HOUP	IS	CNO	OHMA	5
PROJECT NAME	100161	C1E. 9	PHONE NUMBER	E, API	16					Š	425M				9		KAGE								OTHER				
RAINBOW DI	SPESAL		***	CKAG	1022				요	D AS	ME I	ļ	_	m 3		i	PAC	D4318	AGE				ı		SAMPLE	CONI	NOITION	S	
PROJECT NUMBER		•	FAX NUMBER	S PA	ASTA		3240	240	⊣ RP⁄	MEL	E, AS	ı	MES	ASE			<u> </u>	ASTM D4318	PACK					ړ	RECEIVE	ED ON	ICE	YES	/NO
SITE LOCATION	BARRH	,		PHYSICAL PROPERTIES PACKAGE,	MOISTURE CONTENT, ASTM D2216	RP40	GRAIN DENSITY, API RP40	BULK DENSITY, API RP40	AIR PERMEABILITY, API RP40	SPECIFIC RETENTION/YIELD ASTM 0425	CAPILLARY PRESSURE, ASTM D425M	45	GRAIN SIZE: DRY; 400 MESH	GRAIN SIZE: SIEVE & LASER	GHAIN SIZE: LASER; I MICHON	TOC: WAI KI EY-BI ACK	HYDRAULIC CONDUCTIVITY PACKAGE	ATTERBERG LIMITS. A	TNRCC PROPERTIES PACKAGE					NUMBER OF SAMPLES	SEALED OTHER	2.0		YES	/NO
SAMPLER SIGNATURE	C)			− 8	Ś	AP!	Fish	SITY,	EABIL	뛽	Y PRE	PA 90	HO H	35	֓֞֞֞֓֓֓֓֓֓֓֓֟֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓		8	5	OPE	1				PF SA			MEN		
Lun				ᆜᇗ	I E	POROSITY, API RP40	NON	DEN	EBM	옱	E E	SOIL pH, EPA 9045	N SIZ	N SIZ	ZIO ZI		A	BBE) N	1101			Ì	BER (<u> </u>	1101111	10	
SAMPLE ID NUME	BER DATE	TIME	DEPTH, FT	PHY	MOIS	POR	GRA	BELK	AIR P	SPEC	CAP	SOIL	GRA	GRA	¥ Ž	ξ Ε [Ε	Ž Ž	A	TNR		1			NO.					
B-17 SPT-	1 9/13/	5	20		L															X				;					
B-18/R-1	9/19/0	5	5	_	_		_								1				_	Ц									
B-18/R-2	4/13/0	5	lo		L		ŀ																						
B-18/R-3	1 .	5	15				<u> </u>											\perp					ļ			٠.,			-
13-18 SPT -		5	20												·	ŀ						_							
BULL CAMPLE		,5	10-20																										
BULK GAMPLE		: 1	10-20									·								N				<u> </u>			14		
FND								1			·								1					1					
																				Ì								7.14	
				+	+	+	+	+	+	+					-	\dashv	+	+	+	+	+-	-	_	\vdash	 		·········		
				+	4	_	\downarrow	+	+	_		-	_	$\vdash \vdash$	\dashv	\dashv	4	-	-	+	+	 	_	 	· .				<u>></u>
			1	00				ŀ																					∖ttac
1. RELINQUISHED BY	and the second	2. RE	CEMED BY						3.	RELI	NQÜ	JISF	IED	BY		•	7.27				4.	REC	EIV	ED	3Y				hme
COMPANY "		сом	ANY 44435						c)MPA	NY										CC	MP	ANY	:		·····	<u>, </u>		⊋
DATE	TIMĘ			TIME			· · ·		DA	NTE			···-			TIM	=				DA	νΈ	-	:		ना	ME		<u>ā</u> _
9/13/05	16-05	9,	13/05		1	bi		<i>?</i>		:																			

PTS GeoLabs, Inc. • 8100 Secura Way • Santa Fe Springs, CA 90670 • Phone (562) 907-3607 • Fax (562) 907-3610 PTS GeoLabs, Inc. • 4342 W. 12th St. • Houston, TX 77055 • Phone (713) 680-2291 • Fax (713) 680-0763

APPENDIX C

DRY BULK DENSITY OF IN-PLACE SOIL

PROJECT NAME:

Rainbow Disposal

PROJECT NO:

	METHODOLOGY:	Measured	AST	M D 2216/ASTM D 2	937
SAMPLE ID.	DEPTH,	SAMPLE VOLUME, cc	MOISTURE CONTENT (% wt)	VOLUMETRIC WATER CONTENT, FRACTION Vb	DRY BULK DENSITY, g/cc
B-2/R-1	6	33.21	15.1	0.269	1.79
B-2/R-2	11	33.21	22.9	0.352	1.54
B-2/R-3	16	122.92	21.9	0.351	1.60
B-2/R-4	21	112.00	24.4	0.387	1.59
B-3/R-1	6	75.37	48.7	0.889	1.83
B-3/R-2	11	97.05	25.3	0.404	1.60
B-3/R-3	16	111.93	31.2	0.444	1.43
B-4/R-1	8	77.21	32.2	0.456	1.42
B-4/R-2	13	111.78	25.3	0.374	1.48
B-4/R-3	18	113.98	11.9	0.176	1.48
B-7/R-1	6	95.00	18.2	0.328	1.80
B-7/R-2	11	109.07	23.4	0.373	1.60
B-7/R-3	16	111.12	28.5	0.405	1.42
B-11/R-1	6	111.35	7.0	0.113	1.62
B-11/R-2	11	128.84	8.6	0.145	1.68
B-11/R-3	16	174.19	16.0	0.187	1.17
B-14/R-1	6	123.26	18.3	0.308	1.68
B-14/R-2	11	33.21	25.5	0.372	1.46
B-14/R-3	16	108.55	23.1	0.357	1.54
B-15/R-1	6	33.21	20.6	0.353	1.71

DRY BULK DENSITY OF IN-PLACE SOIL

PROJECT NAME:

Rainbow Disposal

PROJECT NO:

	METHODOLOGY:	Measured	AS'	TM D 2216/ASTM D 2	937
SAMPLE ID.	DEPTH,	SAMPLE VOLUME, cc	MOISTURE CONTENT (% wt)	VOLUMETRIC WATER CONTENT, FRACTION Vb	DRY BULK DENSITY, g/cc
B-15/R-2	11	109.07	19.6	0.318	1.62
B-15/R-3	15	120.61	22.7	0.333	1.46

APPENDIX D

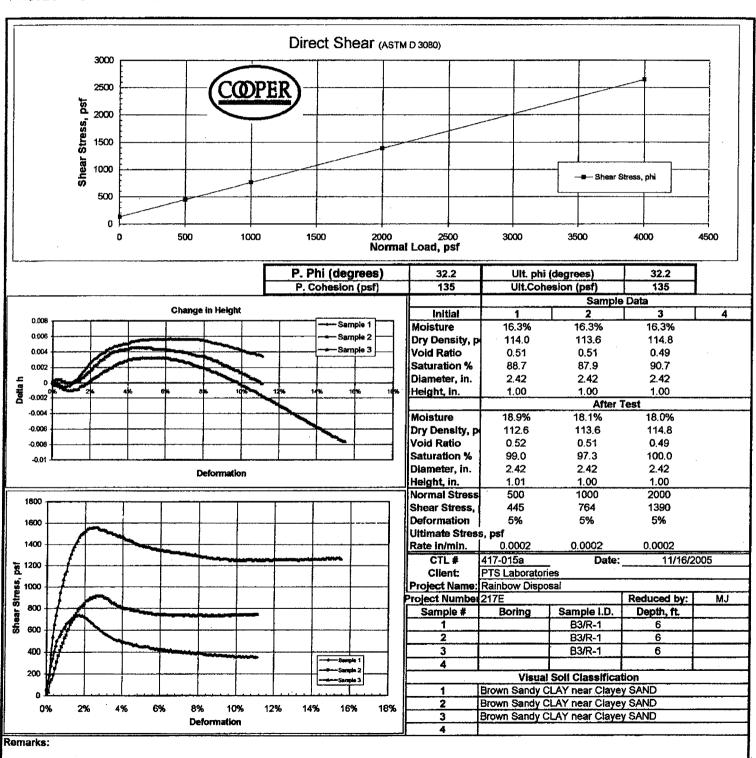
DIRECT SHEAR

Methodology: ASTM D3080

PROJECT NAME:

Rainbow Disposal

PROJECT NO:



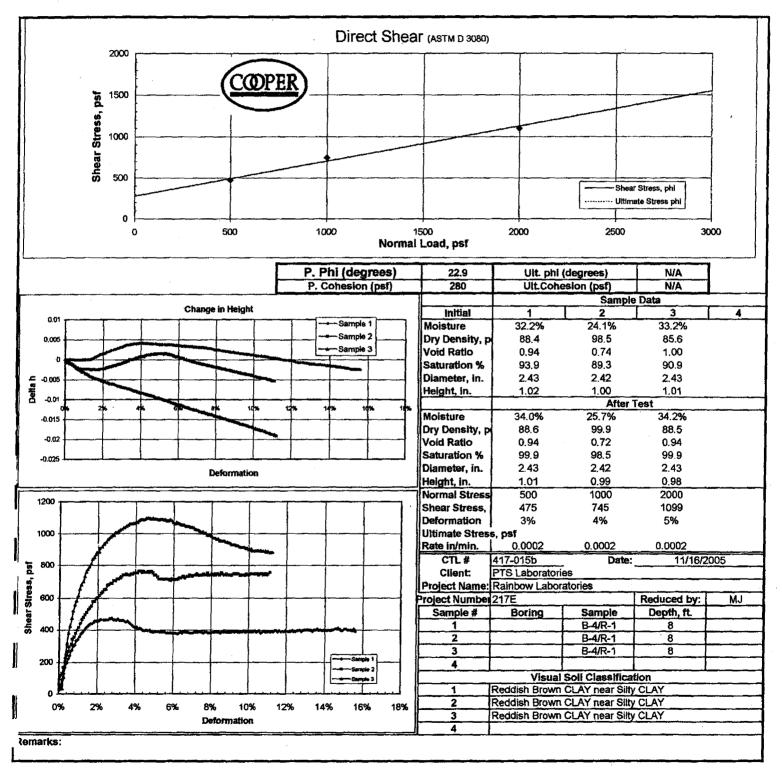
DIRECT SHEAR

Methodology: ASTM D3080

PROJECT NAME:

Rainbow Disposal

PROJECT NO:



EXPANSION INDEX

Methodology: ASTM D4829

PROJECT NAME: Rainbow Disposal

PROJECT NO:

COPER		Ex	Pansion I UBC 18-2 ASTM D-4829				
CTL Job No.:	417-015	Boring:			Date:	10/20/2005	
Client:	PTS	Sample:	CNG Dier	enser Front	_ Date. By:	PJ	
	ainbow Disposal	Depth:		2-5'			
Project No:	217E				-		
Visual Description:		w/ CaCo3 pockets	<u> </u>				
·	Processing:				Moist	ure Calcs	
Percent Passing #4 Sieve				1		Initial	Final
Total Air Dry Weight:					Tare #		
Wt. Retained on #4 Sieve:				Wet Wt. + Tar		783.3	843.7
% Retained		_		Dry Wt. + Tare	, (gm)	743,1	743.1
% Passing #4 Sleve:	N/A			Tare Wt.,	(mg)	417.1	417.1
	Sample Dimensions			Wt. Of Water,	(gm)	40.2	100.6
Height (in.)- 1.00		Diameter (in.) =	4.002	% Water		12.3	30.9
<u> </u>			Remolding:				
Tamp two lifts, 15 blo	ws/lift @ slightly be	low optimum mo	isture content		1		
			Initial	Final			
Ring & Sample:			754.2	814.6	grams		
Ring:		:	388	388.0	grems		
Remokled Wet Wt.:			366.2	426.6	grams		
Wet Density	, , 	,	110.7	116.1	pcf		
Dry Density			98.5	88.7	pcf		
% Sat. ≖	(2.7)(dry dens. 168.48 - (dry d		46.9	92.7	UBC 49 <sat%<5 ASTM (40-60%)</sat%<5 	1	
	Expansi	on Test:				• •	
	Date	Time	Dial	Delta h, %	ested with	i psi Surcharge	
	10/12/2005	11:17	0.0000	0.000		Remarks:	
	10/12/2005	17;35	-0.1093	10.908			
	10/13/2005	8:56	-0.1107	11.048			
	10/13/2005	10:00	-0.1107	11.048			
		<u> </u>	Total Dial	11.0			
xpansion Index		Rest	ults		s a simplified inde now the full poten		
ibial dial - final dial X *	1000			expansion	and/or shrinkage	uu ror i, Use result with cau	tion !
itial sample height		corrected EI =	110 107	See ASTR	D 3877		
	Note: Per ASTM D4829 if the degree of saturation is within the range of 40-60%, S @ 50% can be calculated as follows:						

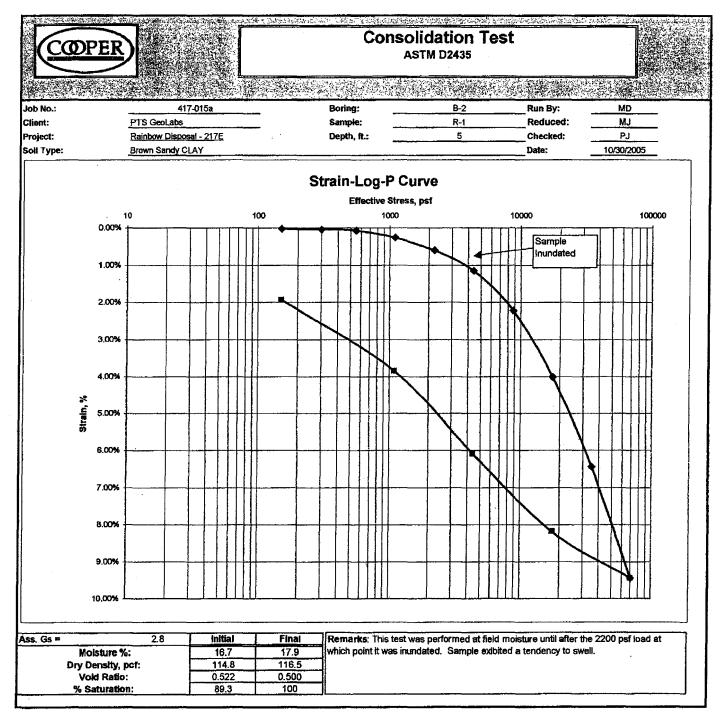
APPENDIX F

Methodology: ASTM D2435

PROJECT NAME:

Rainbow Disposal

PROJECT NO:

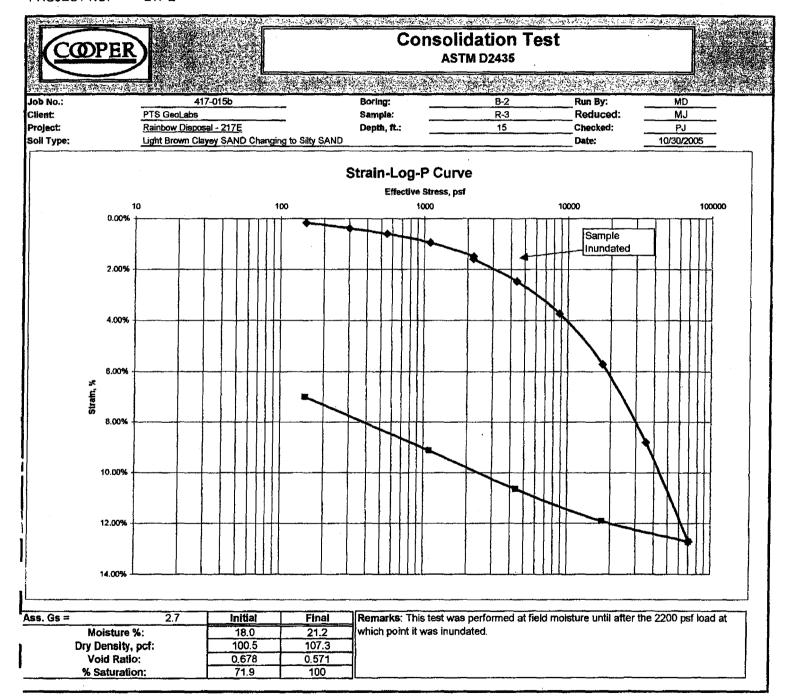


Methodology: ASTM D2435

PROJECT NAME:

Rainbow Disposal

PROJECT NO:

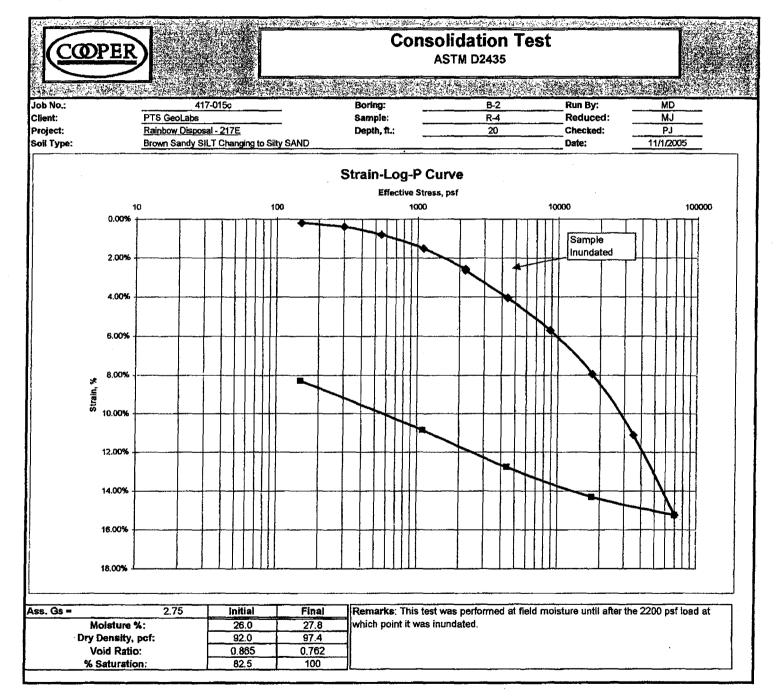


Methodology: ASTM D2435

PROJECT NAME:

Rainbow Disposal

PROJECT NO:

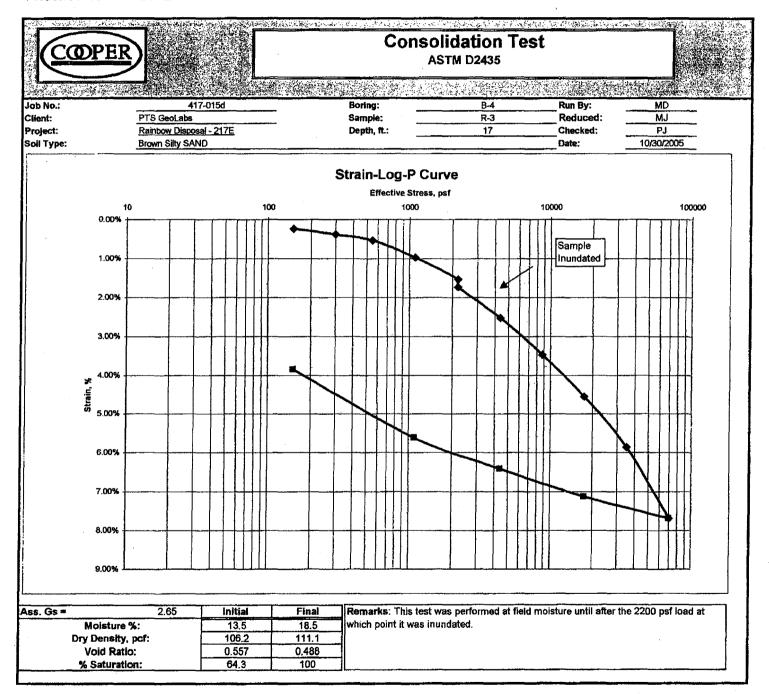


Methodology: ASTM D2435

PROJECT NAME:

Rainbow Disposal

PROJECT NO:

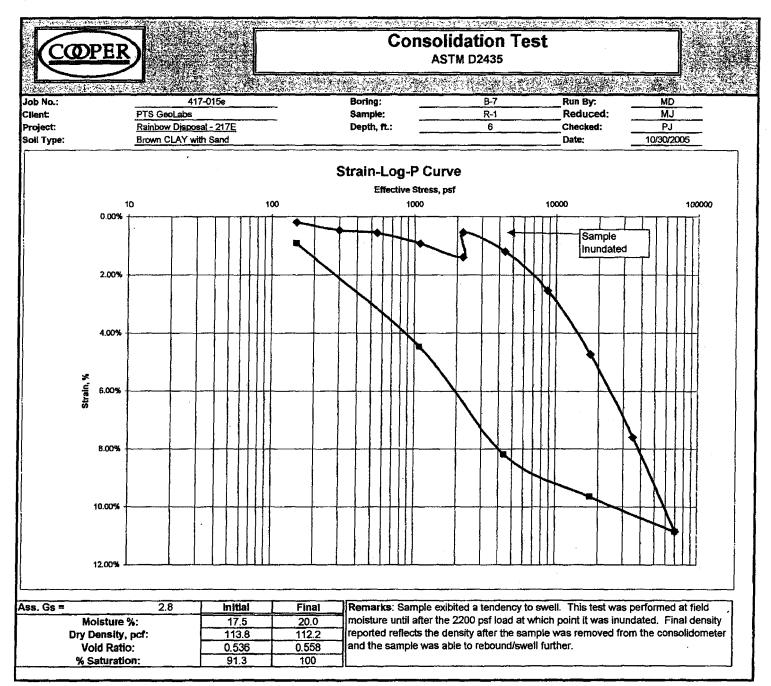


Methodology: ASTM D2435

PROJECT NAME:

Rainbow Disposal

PROJECT NO:

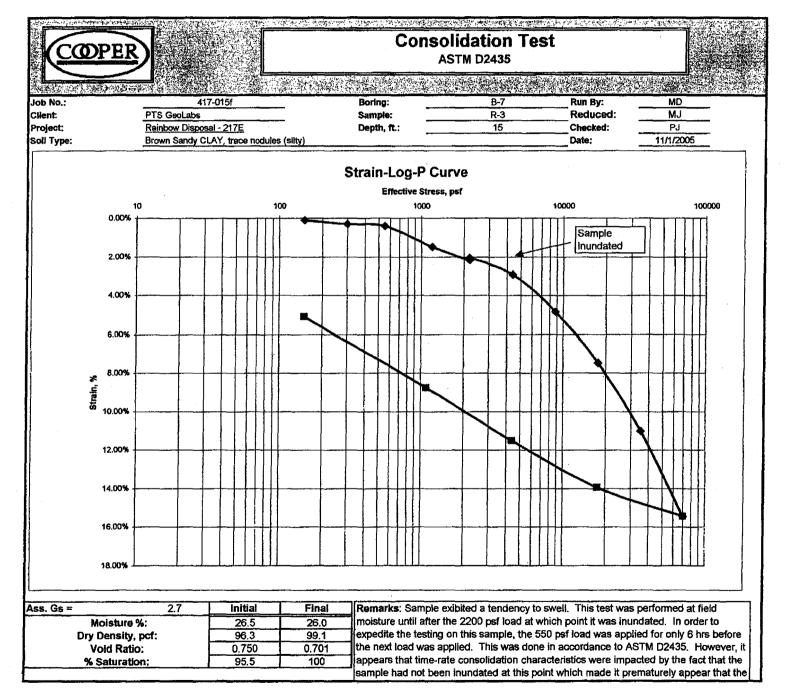


Methodology: ASTM D2435

PROJECT NAME:

Rainbow Disposal

PROJECT NO:



RAINBOW DISPOSAL CO., INC. TELEPHONE LIST APRIL 2007

T-N/a	APRIL 2007								
EXT.	CELL	NAME	DEPARTMENT						
238		Ana Lopez	Scales / Transfe	<u> </u>					
248		Angelica Tapia	MRF / Transfer						
265	465-7971	Armando Duarte	Dispatch Forem	nen					
257	403-2096	Barbara Murphy	Administration						
260	465-7124	Bob Billa	Field / Safety						
258	357-6981	Bruce Shuman	Administration						
252		Carolina Martinez	Human Resource	es					
251		Craig Campbell	MRF / Transfer						
292	448-8027	Delmy Aviles	Scales #2						
270		Dina Cerda	Dispatch Custor	ner Service					
274	465-7967	Don Nickles	IT						
223		Elizabeth Ochoa		ce / Accounts Receivable					
292	448-8027	Erica Farias	Scales #2						
227	465-7962	Gus Santana	Shop						
234		Jennifer Perez	Customer Service	ce / Accounts Receivable					
231	402-5896	Jerry Moffatt	Administration						
244	402-4747	Jewell Hodges	Sales / Service						
241	357-3111	Joaquin Rubino	Dispatch Forem	en					
583	465 6187	John Frixione	Field/Safety						
266	357-9994	Jose Ramirez	MRF / Transfer						
236		Judy Richards	Accounts Payab	le					
229		Leo DeLeon	Assistant Contro	oller					
265	465-7969	Luis Gonzalez	Dispatch Forem	en					
243		Margie Gorto		ce / Accounts Receivable .					
238		Maria Valadez	Scales / Tranfer						
235		Marianne Mandel	Customer Service / Accounts Receivable						
272	465-7973	Mario Fernandez	Bins / Welding						
249	465-7976	Mike Grumbo	Operations						
250	465-7968	Mike Ortiz	MRF / Transfer						
233		Mindy Lutman	Human Resources / Payroll						
264	465-7972	Octavio Camacho	Dispatch Foremen						
239	465-7918	Pedro Aguirre	Bins / Welding						
222		Rachel Kuiland	Dispatch Customer Service						
221		Rhonda Goodman	Receptionist						
230	290-1136	Ron Shenkman	Administration						
275		Rosa Morales	Dispatch Customer Service						
263	715-5981	Samuel Perez	Shop						
		Sarah Lester	· · · · · · · · · · · · · · · · · · ·	ce / Accounts Receivable					
263		Sotero Diaz	Customer Service / Accounts Receivable Shop						
253	309-2438	Sue Gordon	· · · · · · · · · · · · · · · · · · ·	Public Affairs					
242	222-3581	Tim Skeber	Environmental / Public Affairs Customer Service						
227	465-7966	Tony Hurtado	Shop / Rainbow						
247	713-2299	Walter Palencia	MRF / Transfer	i umi					
232	1 10-223	Wendy Almodovar		ce / Accounts Receivable					
		The state of the s	Customer Service						
	22302230.2	REPRESENTED BY ENTER A STATE OF THE STATE OF	000 0407 0 "	YEOKISÜDÜKKÜLS VALAÇA (EVALAS)					
237	Rainbow Bldg.	Α	328-9137-Cell	4					
267	Trailer		841-0218-Home						
			747-3459	Dave Brea Green Recycle					
			847-3256	Helen Parker					
			330-3676	Jeff Romacly					
	#高量Medalida	ANDEOUGENEERS	951-757-1531	Jim French					
319-2651	ACS EMERGE	NCY	841-0133	Jim Sankey					
259	GUARD SHAC	K (357-0672)	842-0175	Linda Moulton-Patterson					
OUTSIDE		ESS PRESS **	720-9117	Wendy Weber					
	FOLLOW PROMPT								
	ngogodkillittegaparen itt signi kattakkilin di pap	PRINTED ON R	ECYCLED PAPER						
PRINTED ON RECYCLED PAPER 💸									

Rainbow Transfer / Recycling, Inc.

ACCOL	INITO	DAVABI		701CE	REGISTE	=0
ACCUL	כוצונ	PATADL	יעוו ם.	VOICE	KEGIOTI	ᇊ

REGISTER NO: AP-0500

VENDOR/		DATES		INVOICE			DISTRIBUTION
INVOICE N	INVOICE	DUE	DISCOUNT	AMOUNT	DISCOUNT	G/L ACCOUNT	AMOUNT
WES640 X73237	WESTERN PO' *ADJUST* CO 03/01/07	•	UIPMENT HAND HOSI	E-8" HEAVY 65.21-	.00		SEP CHK?: N
X13231	03/01/01	G/L:	Purchased Pa	*	.00	6560-30-050	65.21-
		REPORT 7	TOTAL:	65.21-	.00		65.21-

DIVISION 00 MAIN DIVISION G/L ACCOUNT DESCRIPTION DEBIT CREDIT 2000-00-000 Accounts Payable 65.21 6560-30-050 Purchased Parts: SDO 65.21

00

TOTAL:

DIVISION

ACCOUNTS PAYABLE INVOICE REGISTER

Rainbow Transfer / Recycling, Inc.

65.21

REGISTER NO: AP-0500

65.21

POSTINGS FOR: 04/11/07

SOURCE JOURNAL

AP- 0500

G/L ACCT

2000-00-000

6560-30-050

Accounts Payable Purchased Parts: SDO POSTING COMMENT DEBIT CREDIT A/P INVOICE ENTRY /DIV: 00 WESTERN POWER & EQUIPMENT/IN: X73237 65.21 65.21 JOURNAL 0500 TOTALS: 65.21 65.21 SOURCE AP TOTALS: 65.21 65.21 04/11/07 TOTALS: 65.21 65.21